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Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 35: Test Suite Structure and Test Purposes (TSS&TP) specification for supplementary services



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Foreword

This European Standard (Telecommunications series) has been produced by ETSI Technical Committee Signalling Protocol and Switching (SPS).

The present document is part 35 of a multi-part EN covering the Integrated Services Digital Network (ISDN); Signalling System No.7 ISDN User Part (ISUP) version 3 for the international interface, as identified below:

Part 1:	"Basic services";
Part 2:	"ISDN supplementary services";
Part 3:	"Calling Line Identification Presentation (CLIP) supplementary service";
Part 4:	"Calling Line Identification Restriction (CLIR) supplementary service";
Part 5:	"Connected Line Identification Presentation (COLP) supplementary service";
Part 6:	"Connected Line Identification Restriction (COLR) supplementary service";
Part 7:	"Terminal Portability (TP) supplementary service";
Part 8:	"User-to-User Signalling (UUS) supplementary service";
Part 9:	"Closed User Group (CUG) supplementary service";
Part 10:	"Subaddressing (SUB) supplementary service";
Part 11:	"Malicious Call Identification (MCID) supplementary service";
Part 12:	"Conference Call, add-on (CONF) supplementary service";
Part 14:	"Explicit Call Transfer (ECT) supplementary service";
Part 15:	"Diversion supplementary services";
Part 16:	"Call Hold (HOLD) supplementary service";
Part 17:	"Call Waiting (CW) supplementary service";
Part 18:	"Completion of Calls to Busy Subscriber (CCBS) supplementary service";
Part 19:	"Three party (3PTY) supplementary service";
Part 20:	"Completion of Calls on No Reply (CCNR) supplementary service";
Part 31:	"Protocol Implementation Conformance Statement (PICS) proforma specification for supplementary services";
Part 32:	"Test Suite Structure and Test Purposes (TSS&TP) specification for basic services";

- Part 33: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for basic services";
- Part 34: "Protocol Implementation Conformance Statement (PICS) proforma specification for supplementary services";

Part 35: "Test Suite Structure and Test Purposes (TSS&TP) specification for supplementary services";

- Part 36: "Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for supplementary services".
- NOTE: Part 13 and 21 to 30 have not been issued.

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1 Scope

The present document presents the test suite structure and test purposes (TSS&TP) for ISUP v3 supplementary services defined in [1] to [21]. The present document applies only to exchanges having implemented the ISUP v3 protocol specification. It is applicable for validation testing of all types of exchanges as defined in the ISUP v3 protocol specification. The present document does not deal with compatibility testing. The main text part of the present document presents the requirements regarding the chosen test method, conventions used within the ATS, the Test Suite Structure and Test Purposes (TSS&TP) for ISUP v3 supplementary services.

2 References

The following documents contain provisions which, through reference in this text, constitute provisions of the present document.

- References are either specific (identified by date of publication, edition number, version number, etc.) or non-specific.
- For a specific reference, subsequent revisions do not apply.
- For a non-specific reference, the latest version applies.
- [1] ISO/IEC 9646-1 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 1: General concepts".
- [2] ISO/IEC 9646-3 (1996): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 3: The Tree and Tabular Combined Notation (TTCN)".
- [3] ISO/IEC 9646-7 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 7: Implementation Conformance Statements".
- [4] ETSI EN 300 008-1 (V1.3): "Integrated Services Digital Network (ISDN); Signalling System No.7; Message Transfer Part (MTP) to support international interconnection; Part 1: Protocol specification [ITU-T Recommendations Q.701, Q.702, Q.703, Q.704, Q.705, Q.706, Q.707 and Q.708 modified]".
- [5] ETSI EN 300 356-1 (V3.2): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 1: Basic services [ITU-T Recommendations Q.761 to Q.764 (1997), modified]".
- [6] ETSI EN 300 356-3 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 3: Calling Line Identification Presentation (CLIP) supplementary service [ITU-T Recommendation Q.731, clause 3 (1993), modified]".
- [7] ETSI EN 300 356-4 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 4: Calling Line Identification Restriction (CLIR) supplementary service [ITU-T Recommendation Q.731, clause 4 (1993), modified]".
- [8] ETSI EN 300 356-5 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 5: Connected Line Identification Presentation (COLP) supplementary service [ITU-T Recommendation Q.731, clause 5 (1993), modified]".
- [9] ETSI EN 300 356-6 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 6: Connected Line Identification Restriction (COLR) supplementary service [ITU-T Recommendation Q.731, clause 6 (1993), modified]".

[10]	ETSI EN 300 356-7 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 7: Terminal Portability (TP) supplementary service [ITU-T Recommendation Q.733, clause 4 (1993), modified]".	
[11]	ETSI EN 300 356-8 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 8: User-to-User Signalling (UUS) supplementary service [ITU-T Recommendation Q.737, clause 1 (1997), modified]".	
[12]	ETSI EN 300 356-9 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 9: Closed User Group (CUG) supplementary service [ITU-T Recommendation Q.735, clause 1 (1993), modified]".	
[13]	ETSI EN 300 356-10 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 10: Subaddressing (SUB) supplementary service [ITU-T Recommendation Q.731, clause 8 (1992), modified]".	
[14]	ETSI EN 300 356-11 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 11: Malicious Call Identification (MCID) supplementary service [ITU-T Recommendation Q.731, clause 7 (1997), modified]".	
[15]	ETSI EN 300 356-12 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 12: Conference Call, add-on (CONF) supplementary service [ITU-T Recommendation Q.734, clause 1 (1993), modified]".	
[16]	ETSI EN 300 356-14 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 14: Explicit Call Transfer (ECT) supplementary service [ITU-T Recommendation Q.732, clause 7 (1996), modified]".	
[17]	ETSI EN 300 356-15 (V3.2): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 15: Diversion supplementary services [ITU-T Recommendation Q.732, clauses 2 to 5 (1997), modified]".	
[18]	ETSI EN 300 356-16 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 16: Call Hold (HOLD) supplementary service [ITU-T Recommendation Q.733, clause 2 (1993), modified]".	
[19]	ETSI EN 300 356-17 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 17: Call Waiting (CW) supplementary service [ITU-T Recommendation Q.733, clause 1 (1992), modified]".	
[20]	ETSI EN 300 356-18 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 18: Completion of Calls to Busy Subscriber (CCBS) supplementary service [ITU-T Recommendation Q.733, clause 3 (1997), modified]".	
[21]	ETSI EN 300 356-19 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 19: Three-Party (3PTY) supplementary service [ITU-T Recommendation Q.734, clause 2 (1996), modified]".	
[22]	ETSI EN 300 356-20 (V3.2): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 20: Completion of Calls on No Reply (CCNR) supplementary service".	
[23]	CCITT Recommendation Q.707 (1988): "Testing and maintenance".	
[24]	ITU-T Recommendation Q.730 (1997): "ISDN User Part supplementary services".	
[25]	ITU-T Recommendation Q.731 (1993): "Stage 3 description for number identification supplementary services using Signalling System No. 7".	

[26]	ITU-T Recommendation Q.731.1 (1996): "Stage 3 description for number identification supplementary services using Signalling System No. 7; Direct-dialling-in (DDI)".	
[27]	ITU-T Recommendation Q.732.2: "Stage 3 description for call offering supplementary services using Signalling System No. 7: Call diversion services: call forwarding, call forwarding no reply, call forwarding unconditional, call deflection".	
[28]	ITU-T Recommendation Q.733.5 (1999): "Signalling System No. 7 - Completion of calls on no reply".	
[29]	ITU-T Recommendation Q.734.1 (1993): "Stage 3 description for multiparty supplementary services using Signalling System No. 7: Conference calling".	
[30]	ITU-T Recommendation Q.735.1 (1993): "Stage 3 description for community of interest supplementary services using Signalling System No. 7: Closed user group".	
[31]	ITU-T Recommendation Q.735.3 (1993): "Stage 3 description for community of interest supplementary services using Signalling System No. 7; Multi-level precedence and preemption (MLPP)".	
[32]	ITU-T Recommendation Q.735.6 (1996): "Stage 3 description for community of interest supplementary services using Signalling System No. 7; Global Virtual Network Service (GVNS)".	
[33]	ITU-T Recommendation Q.737 (1993): "Stage 3 description for additional information transfer supplementary services using Signalling System No. 7".	
[34]	ETSI EN 300 356-34 (V3.1): "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 34: Protocol Implementation Conformance Statement (PICS) proforma specification for supplementary services".	
[35]	ETSI EN 300 356-36: "Integrated Services Digital Network (ISDN); Signalling System No.7; ISDN User Part (ISUP) version 3 for the international interface; Part 36: Abstract Test Suite (ATS) and partial Protocol Implementation eXtra Information for Testing (PIXIT) proforma specification for supplementary services".	
[36]	ITU-T Recommendation E.164 (1997): "The international public telecommunication numbering plan".	
[37]	ITU-T Recommendation Q.784.1 (1996): "ISUP basic call test specification: Validation and compatibility for ISUP'92 and Q.767 protocols".	
[38]	ITU-T Recommendation Q.788 (1997): "User-network-interface to user-network-interface compatibility test specifications for ISDN, non-ISDN and undetermined accesses interworking over international ISUP".	

3 Definitions and abbreviations

Definitions 3.1

For the purposes of the present document, the following terms and definitions apply:

- terms defined in ISDN User Part (ISUP) reference specification [4] to [33];
- terms defined in ISO/IEC 9646-1 [1], ISO/IEC 9646-3 [2] and in ISO/IEC 9646-7 [3]. ٠

In particular, the following terms apply:

Abstract Test Case (ATC): complete and independent specification of the actions required to achieve a specific test purpose, defined at the level of abstraction of a particular Abstract Test Method, starting in a stable testing state and ending in a stable testing state (see ISO/IEC 9646-1 [1], subclause 3.3.3).

Abstract Test Method (ATM): description of how an IUT is to be tested, given at an appropriate level of abstraction to make the description independent of any particular realization of a Means of Testing, but with enough detail to enable abstract test cases to be specified for this method (see ISO/IEC 9646-1 [1], subclause 3.3.5).

Abstract Test Suite (ATS): test suite composed of abstract test cases (see ISO/IEC 9646-1 [1], subclause 3.3.6).

Implementation Under Test (IUT): implementation of one or more OSI protocols in an adjacent user/provider relationship, being part of a real open system which is to be studied by testing (see ISO/IEC 9646-1 [1], subclause 3.3.43).

ISDN number: number conforming to the numbering and structure specified in ITU-T Recommendation E.164 [36].

Means of Testing (MOT): combination of equipment and procedures that can perform the derivation, selection, parameterization and execution of test cases, in conformance with a reference standardized ATS, and can produce a conformance log (see ISO/IEC 9646-1 [1], subclause 3.3.54).

PICS proforma: document in the form of a questionnaire, which when completed for an implementation or system becomes the PICS.

PIXIT proforma: document in the form of a questionnaire, which when completed for the IUT becomes the PIXIT.

Point of Control and Observation: point within a testing environment where the occurrence of test events is to be controlled and observed, as defined in an Abstract Test Method (see ISO/IEC 9646-1 [1], subclause 3.3.64).

Pre-test condition: setting or state in the IUT which cannot be achieved by providing stimulus from the test environment.

Protocol Implementation Conformance Statement (PICS): statement made by the supplier of a protocol claimed to conform to a given specification, stating which capabilities have been implemented (see ISO/IEC 9646-1 [1], subclause 3.3.39 and subclause 3.3.80).

Protocol Implementation eXtra Information for Testing (PIXIT): statement made by a supplier or implementor of an IUT (protocol) which contains or references all of the information related to the IUT and its testing environment, which will enable the test laboratory to run an appropriate test suite against the IUT (see ISO/IEC 9646-1 [1], subclause 3.3.41 and subclause 3.3.81).

System Under Test (SUT): real open system in which the IUT resides (see ISO/IEC 9646-1 [1], subclause 3.3.103).

User: access protocol entity at the User side of the user-network interface where a T reference point or coincident S and T reference point applies.

3.2 Abbreviations

For the purposes of the present document, the following abbreviations apply:

3PTY	Three Party service
ASE	Application Service Entity
ASP	Abstract Service Primitive
ATC	Abstract Test Case
ATM	Abstract Test Method
ATS	Abstract Test Suite
CCBS	Completion of Calls to Busy Subscriber
CD	Call Deflection
CDIV	Call DIVersion
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLI	Calling Line Identity
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
COL	Connected Line Identity
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction
CONF	Conference call, add-on

CUG	Closed User Group
CW	Call Waiting
DDI	Direct Dialling-In
DLE	Destination Local Exchange
DSS1	Digital Subscriber System No. 1
ECT	Explicit Call Transfer
HOLD	Call Hold
IncIE	Incoming International Exchange
IntermE	Intermediate Exchange
ISC	International Switching Centre
ISDN	Integrated Services Digital Network
ISUP	ISDN User Part
ITE	International Transit Exchange
IUT	Implementation Under Test
IWorkE	Interworking Exchange
LAPD	Link Access Protocol for the D-channel
LT	Lower Tester
MCID	Malicious Call Identification
MOT	Means Of Testing
MSN	Multiple Subscriber Number
MTC	Main Test Component
MTP	Message Transfer Part
NNI	Network-network interface
NTE	National Transit Exchange
OLE	Originating Local Exchange
OutIE	Outgoing International Exchange
PCO	Point of Control and Observation
PDU	Protocol Data Unit
PICS	Protocol Implementation Conformance Statement
PIXIT	Protocol Implementation eXtra Information for Testing
PSTN	Public Switched Telephone Network
SP	Signalling Point
SUB	Sub-addressing
SUT	System Under Test
TCAP	Transaction Capabilities Application Part
TCP	Test Coordination Procedures
TP	Terminal portability
TP	Test Purpose (context dependent)
TSS	Test Suite Structure
TTCN	Tree and Tabular Combined Notation
UNI	User-network interface
UT	Upper Tester
UUS	User-to-user signalling
UUS1	User-to-user signalling service 1
UUS2	User-to-user signalling service 2
UUS3	User-to-user signalling service 3

The ISUP message acronyms can be found in table 2 of ITU-T Recommendation Q.762 as endorsed by EN 300 356-1 [5].

3.2.1 ISUP abbreviations

The following abbreviations apply for ISUP parameters and parameter values.

ACH	Access signalling PCO (D-channel)
APH	Access physical circuit PCO (B-channel)
addCgPN	additional Calling Party Number
addConNb	additional Connected Number
AdSg	Address Signals
APRI	Address Presentation Restricted Indicator
ATP	Access Transport Parameter
BCI	Backward Call Indicators

CAB	PCO for AB circuits
CAC	PCO for AC circuits
CC	Country Code
CCBSpar	CCBS parameter
CDInf	Call Diversion Information
CDmo	Call Diversion may occur
CdPSI	Called Party's Status Indicator
CgPN	Calling Party Number
CHInf	Call History Information
ConNb	Connected Number
CTNb	Call Transfer Number
CTRef	Call Transfer Reference
CUGIC	CUG Interlock Code
FCI	Forward Call Indicators
GenNb	Generic Number
GenNot	Generic Notification
IA	Incoming Access
ICB	Incoming Calls Barred
IPI	ISUP Preference Indicator
LAB	PCO for signalling link AB
LAC	PCO for signalling link AC
LOPInd	LOop Prevention Indicators
NoInd	No Indication
NSO	Notification Subscription Option
OA	Outgoing Access
OBCI	Optional Backward Call Indicators
OFCI	Optional Forward Call Indicators
OriCdNb	Original Called Number
PDC	Propagation Delay Counter
PTC	Parallel Test Component
RgInd	Redirecting Indicator
RgNb	Redirecting Number
RnCnt	Redirection Counter
RnInf	Redirection Information
RnNb	Redirection Number
RnNbRes	Redirection Number Restriction
RnReas	Redirection Reason
ScrI	Screening Indicator
ServAct	Service Activation
USI	User Service Information
USIp	User Service Information prime
UUInd	User-to-User Indicators
UUInf	User-to-User Information

4 Implementation under test and test methods

4.1 Identification of the system and implementation under test

The System Under Test (SUT) is an exchange. The implementation under test (IUT) is the ISUP v3 implementation in this exchange, mainly the part responsible for the supplementary services functionality, as shown in figure 1.



Figure 1: System Under Test

The ISUP signalling protocol can be observed on the SS No. 7 link on the Network-Network Interface (NNI). The effects of signalling procedures of the ISDN User Part can be observed on the circuits controlled by the ISUP on the NNI.

The ISUP implementation will in some exchanges have to interwork with the Access signalling system on the user-network interface (UNI) and involve call handling in order to establish end-to-end connections.

From the ISUP reference standard several types of exchanges (or roles) can be identified as presented in figure 2.



Figure 2: Roles of exchanges

The exchanges can be divided into two main groups according to their functionality: local exchanges, where calls originate and terminate, and intermediate exchanges, with transit functionality. Local exchanges are national, i.e. belong to a national network. Intermediate exchanges are national or international. The international intermediate exchanges which permit access to the international network are the gateway exchanges (incoming and outgoing), also called ISCs (International Switching Centres). A particularity for some supplementary services, e.g. call diversion services, is that a local exchange is not only originator/terminator of the call but also mediator between two far-end local exchanges. The roles of the exchanges are summarized in table 1.

Table 1: Roles of exchanges

	Local	Intermediate Exchange	
	Exchange	National	International
Originating Local Exchange	OLE		
Transit Exchange		NTE	ITE
Incoming/Gateway Exchange			InclE
Outgoing/Gateway Exchange			OutIE
Destination Local Exchange	DLE		

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4.2 ATM and testing configuration for ISUP v3

The Abstract Test Method (ATM) chosen for the ISUP v3 supplementary services testing specification is the distributed multi-party test method. The ATM is defined at an appropriate level of abstraction so that the test cases may be specified appropriately, without adding restrictions to the implementation under test. The testing architectures are described in the following subclauses.

The ATS is written in concurrent TTCN.

4.2.1 Intermediate exchanges

The configuration proposed for testing intermediate exchanges is shown in figure 3. In order to test the protocol and functionality of transit and gateway exchanges one needs to consider the incoming and outgoing side of the SUT.



Figure 3: ISUP test method for intermediate exchanges

The IUT is observed and controlled from two signalling links with ISUP associated circuits. The points of control and observation (PCO) are labelled LAB and CAB on one side, and LAC and CAC on the other.

The LAB and LAC PCOs are used by the lower testers (LT) for controlling the ISUP signalling link, whereas the CAB and CAC PCOs are used by the lower testers for observing circuit related events, such as connectivity, echo control check, alerting tone, etc.

The ISUP PDUs to be sent and observed on the LAB PCO side allow for PDU constraints to be specified and coded down to the bit level.

The underlying network service provider is the Message Transfer Part (MTP) protocol.

Figure 4 shows the actual used configuration for intermediate exchanges, with a main testing component (MTC), responsible for the A-B interface and a slave parallel testing component (PTC), responsible for the C-A interface.

The test coordination procedures (TCP) allow for communication between the testers. The test components are mostly implicitly coordinated (asynchronously); the TCPs are only used when it is necessary to obtain the verdict from the parallel test component.



Figure 4: ISUP test configuration for intermediate exchanges

4.2.2 Local exchanges

When testing a local exchange as specified in the reference standard, it is difficult, if not impossible, to observe only ISUP PDUs, if functionality such as connectivity, tones and announcements etc. associated with protocol events is to be considered and used to assign verdicts. The reference standard often refers to actions or events initiated by or to be observed by the calling or called user.

A Point of Control of Observation (PCO) from ISUP (IUT) to the access side is needed, e.g. for stimulating the local exchange to originate a call (send an IAM). Another PCO is needed to check connectivity or generated tones by the local exchange.

There is no exposed interface from ISUP (the IUT) towards the access side. For practical testing purposes the natural choice is the access interface. It is therefore reasonable to make use of the access interface (e.g. the user access interface DSS1) as a PCO and to use existing naming conventions for the abstract service primitives (ASPs) to be used on this PCO.

Figure 5 presents a multi-party testing configuration for local exchanges. In this figure each tester has a single PCO. The PCO for the access uses the underlying access service provider (e.g. LAPD, in case of DSS1) for observing access events and stimulating the ISUP via the access. The ISUP implementation (IUT) cannot be tested without involving the user-network interface (UNI).



Figure 5: ISUP test method for originating/destination exchanges

On the right side there are two PCOs as in the test configuration presented in the previous subclause. The LAB PCO is used by the LT controlling the ISUP signalling link, whereas the CAB PCO is used by another LT controlling the traffic channels (for observing circuit related events, such as connectivity, alerting tone, etc.).

The ISUP PDUs to be sent and observed on the LAB PCO side allow for PDU constraints to be specified and coded down to the bit level.

On the access side there are two PCOs and two LTs similar to the ones on network side. The ACH PCO is used to observe and control the Call Handling events, whereas the APH is used to control and observe physical aspects (e.g. tones and announcements).

The access PDUs to be sent and observed on the ACH PCO are chosen at an appropriate level of abstraction. For the access ASPs DSS1-like primitive names have been used, whereas access PDU constraints have not been coded to the bit level. The access aspects cannot be left out for local exchanges, widening in this respect to some extent the scope of the ISUP testing.

Figure 6 shows the actual used configuration for local exchanges, with a master testing component (MTC), responsible for the A-B interface and a slave parallel testing component (PTC), responsible for the UNI access interface. The maintenance PCO is integrated in the MTC, for simplifying reasons.

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There are test cases for local exchanges for some supplementary services where a mixed configuration is used. This configuration is presented in figure 7 and it may be deduced from the configurations presented in figures 4 and 6.



Figure 7: ISUP mixed test configuration for local exchanges

In this configuration the main test component located on the right side supervises two parallel test components: one ISUP PTC and one access PTC. The local exchange in this case is the exchange serving the user who activated the supplementary service.

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4.2.3 Master-slave aspects in the test configuration

Figures 4, 6 and 7 show the logical test components of the adopted test configuration. The main test component is located on the right side of the IUT, whereas on the left side there are different parallel test components: ISUP (figure 4), access (figure 6) or both (figure 7).

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The ATS is written so that the appropriate configuration is chosen - depending on the exchange's role to be tested.

The right side main test component may be international or national ISUP and is configurable so that any two of these may be run - based on the answers given to PIXIT questions.

The left side parallel test component may be of any kind: it may be international or national ISUP, an access signalling system or a non-ISUP user part. At test execution exactly one of these configurations will be chosen - based on the information provided in the PICS and PIXIT.

For the gateway exchanges it is assumed by default that the call is set up from the left PTC to the right MTC. So for outgoing international exchange the national network is located on the left side and the international network on the right side. For incoming international exchanges the international network is located on the left side and the national network on the right side.

The message flow in the test cases is designed in such a way that the verdict is assigned based on observing the behaviour on the right side. The left side will in this case mainly act as a slave stimulus/acceptor. There are, however, test cases where the expected behaviour of both sides is needed to assign the verdict.

5 Test Suite Structure (TSS)

ISUP_v3_			
Suppl_Services			
		_	
2	CLIR	_	
3	COLP	_	
4	COLR	_	
5	TP NO_TP	_	
6	UUS	-	
7	CUG	UUS1_I NO_UUS1_I	
8	NO_CUG SUB	UUS1_E NO_UUS1_E	
9	MCID	UUS2 NO_UUS2	
10	NO_MCID CONF	UUS3 NO_UUS3	
11	ECT	_	
12	CDIV	_	
13	HOLD		For each leaf:
		_	
14	CW	_	V
15	CCBS		<u> </u>
16	THREE_PTY	ISUP ASE	
17	CCNR		
		ISUP ASE	

Figure 8: Test suite structure

Test suite structure (TSS) naming conventions are:

CCBS	Completion of Calls to Busy Subscriber
CCBS_ASE	CCBS - Application Service Element
CCBS_ISUP	CCBS - ISUP protocol
CCNR	Completion of Calls No Reply
CCNR_ASE	CCNR - Application Service Element
CCNR_ISUP	CCNR - ISUP protocol
CD	Call Deflection
CDIV	Call Diversion Services
CFB	Call Forwarding Busy
CFNR	Call Forwarding No Reply
CFU	Call Forwarding Unconditional
CLIP	Calling Line Identification Presentation
CLIR	Calling Line Identification Restriction
COLP	Connected Line Identification Presentation
COLR	Connected Line Identification Restriction
CONF	Conference Call, add-on

CUG CW	Closed User Group Call Waiting
ECT	Explicit Call Transfer
HOLD	Call Hold
Ι	Inopportune stimulus
MCID	Malicious Call Identification
NO_CUG	Closed User Group not supported
NO_MCID	Malicious Call Identification not supported
NO_TP	Terminal Portability not supported
NO_UUS1_E	User-to-User Signalling service 1 explicit not supported
NO_UUS1_I	User-to-User Signalling service 1 implicit not supported
NO_UUS2	User-to-User Signalling service 2 not supported
NO_UUS3	User-to-User Signalling service 3 not supported
SUB	Sub-addressing
THREE_PTY	Three Party service
TP	Terminal Portability
UUS	User-to-User Signalling
UUS1_E	User-to-User Signalling service 1 explicit
UUS1_I	User-to-User Signalling service 1 implicit
UUS2	User-to-User Signalling service 2
UUS3	User-to-User Signalling service 3
V	Valid behaviour stimulus

6 Test purposes (TP)

6.1 Introduction

For each test requirement a Test Purpose (TP) is defined.

6.1.1 Test purpose (TP) naming convention

Test Purposes are numbered ascending within each group. Groups are organized according to the TSS down to the last but one level. The classification in the V/I groups is done by the inclusion of V or I in the test case name. Additional qualifiers, in form of lower case letters, are added to identify variants within one generic test case, see table 2.

Identifier:		ISS_{ <tc>}_<group>_<n>_<n>_{<n>}_{<a>}</n></n></n></group></tc>
ISS	=	ISUP v3 Supplementary Services
{ <tc>}</tc>	=	Designation used for ASE test cases (e.g. CCBS):
		TC: Transaction Capabilities
<group></group>	=	One character representing the test group:
		V: Valid stimulus
		I: Inopportune stimulus
<n></n>	=	Sequence number for supplementary services according to the test suite structure
<n></n>	=	Sequence number used within the group
{ <n>}</n>	=	Optional additional number used (e.g. for UUS)
{ <a>}	=	Optional lower-case character distinguishing tests with same reference number

6.1.2 Source of test purpose definition

The test purposes cover validation testing aspects and were developed within ETSI.

6.1.3 Test purpose structure

The test purpose structure overlaps with the Test Suite Structure (TSS).

Test purposes that test normal behaviour have been grouped in the V - valid behaviour group.

Test purposes that test the IUT behaviour in situations that are not normal operation have been grouped in the I - Inopportune stimulus group.

Test purposes for the Application Service Entity (ASE) defined for some supplementary services (e.g. CCBS) have been marked with the TC designation - Transaction capabilities.

6.2 Test purposes for the supplementary services

All of the following test purposes belong to the main group ISUP_v3_Suppl_Services. Each test purpose is presented in a separate table. The first row of the table contains the following items:

TSS	Identifier in the test suite structure (test group/subgroup identifier);
TP	Identifier of the test purpose;
ISUP v3 reference	The reference to the requirement in the ISUP standards [5] to [21], [24], [26] to [27] and [31] to [32] which led to the test purpose;
Selection expression	Selection criterion for the test purpose taking into account the exchange's role and the answers to the specified PICS questions. If the PICS questions refer to features of the Basic call control procedures (see ITU-T Recommendation Q.784.1 [37]) they are preceded by the identifier "BCall". All other PICS questions refer to supplementary services specific features (see annex A). If there is no selection expression specified, the TP is valid for all roles of exchanges;
Q.788 [38] reference	If there is a test purpose defined in the ITU-T Recommendation Q.788 [38] which covers the expected behaviour of the below defined test purpose, then the reference to that test is given here. Because the test purposes defined in ITU-T Recommendation Q.788 [38] describe UNI (user-network interface) to UNI end-to-end tests it is possible that one single ITU-T Recommendation Q.788 [38] test is referenced by several test purposes in this test specification. Besides that, some defined test purposes do not have any reference to ITU-T Recommendation Q.788 [38] and therefore the word "None" is used in the ITU-T Recommendation Q.788 [38] reference box.

The next row defines the test purpose itself, each having a *title* in *italics* and a text body.

The ISUP messages and parameter names are highlighted **bold** to ease the readability.

In order to check the specified behaviour for some test purposes, a special prerequisite test condition has to be fulfilled. If such a condition is needed, it is presented after the test purpose under the heading "Pre-test conditions".

For each test purpose the essential part of the message sequence chart is presented. If there are several scenarios of message sequence charts implied by the test purpose, the variants are presented distinguishing the different cases. These message sequence charts are presented using a fixed pitch font for the proper alignment of the arrows in the diagram. Inside the message sequence charts comments are included for clarification purposes.

Additional information of interest while executing/implementing the test cases is presented below a continuous line after the message sequence charts.

6.2.1 Calling line identification presentation (CLIP)

TSS CLIP/	TP ISS_V_1_1	ISUP'97 reference 3.5.2.1.1; Table 3.1/Q.731 [25]	Selection expression OLE	Q.788 [38] reference 2.1.1
Test purpose				
Calling party number (r	network provided)			
		call having a calling party r	number with the scree	ning indicator
		stricted indicator set to "prese		ing indicator
	SPA SF			
setup	>IAM>	•		
becup				
1 Sot up a call	from the access without or	alling party number or invalid	colling party number /	not acconted by
1. Set up a call the network)		alling party number or invalio	d calling party number (not accepted by

TSS CLIP/	TP ISS_V_1_2	ISUP'97 reference 3.5.2.1.1; Table 3.1/Q.731 [25]	Selection expression OLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.1.2
Test purpose				
Calling party number (ne	etwork provided) with calling	g sub-address		
	n successfully originate a c		number with the screer	ning indicator
	and an access transport			5
Pre-test conditions		parameter containing me	calling cap and cool	
	UT so that the calling party	has subscribed to the sub	-addressing supplement	tany service
· · ·	v , <i>v</i>	Thas subscribed to the sub		itary service.
access SP				
setup>	>IAM>			
1. Set up a call f	rom the access without cal	ling party number or wrong	g calling party number (not accepted by

the network) and with a calling sub-address.

	3.5.2.1.1; Table 3.1/Q.731 [25]	expression OLE	reference None
	<i>passed)</i> call having the calling party	number with the sc	reening indicato
 SPA SPI			

TSS CLIP/	TP ISS_V_1_4	ISUP'97 reference 3.5.2.1.1; Table 3.1/Q.731 [25]	Selection expression OLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.1.3
To verify that the IUT ca	ser provided, verified and pa- n successfully originate a ca rified and passed" and an ac	II having a calling party	number with the scree	
Arrange the data in the	IUT so that the calling party h	nas subscribed to the sub	-addressing supplemer	ntary service.
access SF setup>	PA SPB IAM>			
1. Set up a call sub-address.	from the access with a correct	ct calling party number (w	<i>i</i> ithin range) and with a	calling

TSS TP CLIP/ ISS_V_1_5	ISUP'97 reference 3.5.2.1.1; Table 3.1/Q.731 [25]	Selection expression OLE	Q.788 [38] reference None
---------------------------	---	--------------------------------	---------------------------------

Test purpose

1

Calling party number (user provided, not verified)

To verify that the IUT can successfully originate a call having a default **calling party number** with the screening indicator set to "network provided" and a **generic number** containing the additional calling party number with the screening indicator set to "user provided, not verified".

Pre-test conditions

Arrange the data in the IUT so that there is a special arrangement from the access signalling system regarding an additional calling party number.

access SPA SPB -----Setup----> -----IAM----->

Set up a call from the access with a special calling party number.

TSS CLIP/	TP ISS_V_1_6	ISUP'97 reference 3.5.2.1.1; Table 3.1/Q.731 [25]	Selection expression OLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.1.4
To verify that the IUT can indicator set to "network screening indicator set to sub-address. Pre-test conditions Arrange the data in IUT s	provided", a generic num o "user provided, not verifi so that there is a special a	with calling sub-address call having a default calling nber containing the addition ed" and an access transpo arrangement from the acces party has subscribed to the	al calling party number ort parameter containin s signalling system reg	with the g the calling arding an
access SP. setup>	A SPB IAM>			
1. Set up a call f	rom the access with a spe	ecial calling party number ar	nd a calling sub-addres	S.

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]			
CLIP/	ISS_V_1_7	3.4;	expression	reference			
		3.5.2.2.1/Q.731 [25]	Transit	None			
Test purpose	Test purpose						
Passing on the calling p	arty number and the generic	number					
To verify that a calling	party number and additional	calling party number in the	he generic number ca	in be			
successfully transferred	to the succeeding exchange	·					
Case a)							
SPC S							
>IAM>	IAM>						
1. The PTC will	initiate a call set up with the	expected parameters.					
2. CgPN only.							
Case b)							
SPC S	SPA SPB						
IAM>	IAM>						
1. The PTC will	initiate a call set up with the	expected parameters.					
CgPN and ac	ldCgPN in GenNb.						

TSS CLIP/	TP ISS_V_1_8	ISUP'97 reference 3.5.2.3.1/Q.731 [25]	Selection expression OutIE AND PICS A.4/1	Q.788 [38] reference None
Test purpose				
	arty number in case of bilate			
To verify that the callin	g party number is discarde	d in case of bilateral agree	ments, if the address p	presentation
restricted indicator is se	et to "presentation allowed".			
	agreement prohibits the tra			The test with the
address pres	sentation restricted indicator	set to "presentation restric	ted" is a CLIR test.	
Pre-test conditions				
Arrange the data in IUT	so that the calling party nur	nber is discarded.		
SPC	SPA SPB	5		
IAM	>IAM>			
1. The PTC wil	initiate a call set up with the	e expected parameters.		

TSS CLIP/	TP ISS_V_1_9	ISUP'97 reference 3.5.2.3.1/Q.731 [25]	Selection expression OutIE AND PICS A.4/2	Q.788 [38] reference None
Test purpose				
		ase of bilateral agreements		
		n the generic number is disc		teral
agreements, if the addre	ss presentation restricted	indicator is set to "presentati	ion allowed".	
		ansferral of the calling party or set to "presentation restrict		The test with the
Pre-test conditions				
	so that the additional calli	ng party number in the gener	ie number ie dieeerd	od
				.
	PA SP	B		
>1AM>	>IAM>			
1. The PTC will	initiata a call act un with th	a avaatad paramatara		
I. INEPIC WII	initiate a call set up with the	le expected parameters.		

TSS CLIP/	TP ISS_V_1_10	ISUP'97 reference 3.5.2.3.1/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
	arty number, if the address i I party number is omitted, i		restricted indicator is	set to "address
SPC S	PA SPB			
IAM>	IAM>			
1. The PTC will	initiate a call set up with the	expected parameters.		

TSS CLIP/	TP ISS_V_1_11	ISUP'97 reference 3.5.2.3.1/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
Test purpose				
	al calling party number, if no ng party number is not ser			neric number
will be omitted.			g party namber in a ge	
SPC	SPA SE	PB		
IAM>	IAM>			
1. The PTC will	initiate a call set up with the	e expected parameters.		
		1 1 1 1 1 1		

TSS CLIP/	TP ISS_V_1_12	ISUP'97 reference 3.5.2.3.1/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
Test purpose				
	arty number to internation	al format		
		y number into an internation	hal number setting the	e nature of
		in pass on the address prese		
screening indicator trans		in pass on the address prese	entation restricted indi	
0				
SPC S	PA SP	PB		
IAM>	>IAM>			
1. The PTC will	initiate a call set up with th	ne expected parameters.		

TSS CLIP/	TP ISS_V_1_13	ISUP'97 reference 3.5.2.3.1/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
Test purpose				
To verify that the IUT ca number, if the numberin number" and can pass o	al calling party number to inte in convert the additional callin g plan indicator is "ISDN Tele on the address presentation r	ng party number in the ge ephony", setting the natu	re of address indicator	to "international
SPC	SPA SPE	8		
>IAM>	IAM>			
1. The PTC will	initiate a call set up with the	expected parameters.		

TSS CLIP/	TP ISS_I_1_14	ISUP'97 reference 3.5.2.3.2/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
Test purpose				
Discarding an incomple	ete calling party number			
To verify that the callin	g party number is discard	ed, if it is received with the c	alling party number in	complete
indicator set to "incomp	lete".			
SPC	SPA SE	PB		
IAM	>IAM>			
1. The PTC will	initiate a call set up with the	ne expected parameters.		

TSS CLIP/	TP ISS_V_1_15	ISUP'97 reference 3.5.2.4.1/Q.731 [25]	Selection expression InclE	Q.788 [38] reference None
	y code in the address nature of address indi	s signals of the calling party nu icator shall be set to "national (si		
SPC International				
1. The PTC will	initiate a call set up w	vith the expected parameters.		

TSS CLIP/	TP ISS_V_1_16	ISUP'97 reference 3.5.2.4.1/Q.731 [25]	Selection expression InclE	Q.788 [38] reference None
Test purpose		· ·		
		ational format, if necessary		
To verify that the countr	y code in the address signa	als of the generic number of	coded as an "additiona	al calling party
number", if the numberir	ng plan indicator is "ISDN 7	Felephony" is removed if it is	s the network's own co	untry code. The
nature of address indica	tor shall be set to "national	I (significant) number". The	address presentation r	restricted
indicator shall be transfe	erred transparently.			
SPC S	SPA SPI	В		
IAM>	> IAM>			
1. The PTC will	initiate a call set up with th	e expected parameters.		

TSS CLIP/	TP ISS_I_1_17	ISUP'97 reference 3.5.2.4.1/Q.731 [25]	Selection expression IncIE AND PICS A.4/4	Q.788 [38] reference None
To verify that a prefix is	ernational calling party nu added to the calling party Inknown" is a national opt	y number and the nature of a	address indicator is se	t to "unknown".
	PA SI IAM>	₽B		
1. The PTC will	initiate a call set up with th	he expected parameters.		

TSS CLIP/	TP ISS_I_1_18	ISUP'97 reference 3.5.2.4.2/Q.731 [25]	Selection expression IncIE AND PICS A.4/5	Q.788 [38] reference None
Test purpose				
	sentation restricted indicator			
	ing indicator shall be set to "		ddress presentation re	estricted
indicator in calling party	number is set to "address	not available".		
NOTE: The coding "a	address not available" is a na	ational option (@).		
SPC S	SPA SPB			
IAM>	IAM>			
1. The PTC will	initiate a call set up with the	expected parameters.		

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CLIP/	ISS V 1 19	3.6.10.1/Q.731 [25]	expression	reference
			DLE AND	None
			(PICS A.3/12 OR	
			PICS A.3/13 OR	
			PICS A.3/14 OR	
			PICS A.3/15)	

Test purpose

CLIP - interaction with call diversions

To verify that a call diverting exchange shall also forward the calling party number and the generic number containing the additional calling party number.

Pre-test conditions

Arrange the data in the IUT such that the called user has subscribed to CLIP and has activated a call diversion service (CFB, CFNR, CFU or CD). SPB

SPC SPA --IAM-----> -----IAM-----> - -

The PTC will initiate a call set up with the expected parameters. 1.

6.2.2 Calling line identification restriction (CLIR)

TSS CLIR/		TP ISS_V_2_1	ISUP'97 reference 4.5.2.1.1/Q.731 [25]	Selection expression OLE	Q.788 [38] reference 2.1.5
Test purpose					
Restricted calling p	arty number (network provided)			
To verify that the I	JT can succes	sfully originate a c	all having a calling party	number with the scree	ning indicator
			tion restricted indicator set		
Pre-test conditions				•	
Arrange the data ir	the IUT so th	at the calling party	has subscribed CLIR.		
access	SPA	SPB			
setup	>	IAM>			
1. Set up a the netw		access without cal	ling party number or wrong	g calling party number (not accepted b

TSS CLIR/	TP ISS_V_2_2	ISUP'97 reference 4.5.2.1.1/Q.731 [25]	Selection expression OLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.1.6
To verify that the IUT of set to "network provide access transport para Pre-test conditions	ed", the address presentation ameter containing the callin	call having a calling party on restricted indicator set to	presentation restricted	
1. Set up a cal	SPA SPF SPA SPF I from the access without c and with a calling sub-adc	alling party number or wrong	g calling party number (not accepted b

TSS CLIR/	TP ISS_V_2_3	ISUP'97 reference 4.5.2.1.1/Q.731 [25]	Selection expression OLE	Q.788 [38] reference None
Test purpose				
Restricted calling party n	umber (user provided, ve	erified and passed)		
To verify that the IUT car	successfully originate a	call having the calling party	number with the scr	eening indicator
set to "user provided, ver	ified and passed" and the	e address presentation restric	ted indicator set to "p	oresentation
restricted".	·	·		
Pre-test conditions				
	JT so that the calling part	ty has subscribed CLIR.		
Arrange the data in the II	• 1			
Arrange the data in the II access SP	• 1	3		
Arrange the data in the II access SP	A SPE	3		

TSS CLIR/	TP ISS_V_2_4	ISUP'97 reference 4.5.2.1.1/Q.731 [25]	Selection expression OLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.1.7
To verify that the IUT ca set to "user provided, verestricted" and an acces Pre-test conditions	number (user provided, verifi an successfully originate a ca erified and passed", the addre ss transport parameter conta IUT so that the calling party h	II having a calling party in ess presentation restricted aining the calling sub-add	number with the scree d indicator set to "prese tress.	
	SPA SPB >IAM>			
1. Set up a call sub-address.	from the access with a correc	ct calling party number (w	<i>i</i> ithin range) and with a	calling

TSS CLIR/	TP ISS_V_2_5	ISUP'97 reference 4.5.2.1.1/Q.731 [25]	Selection expression OLE	Q.788 [38] reference None
To verify that the IUT ca indicator set to "network screening indicator set to "presentation restrict Pre-test conditions Arrange the data in IUT additional calling party access S	so that there is a special arr number and that the calling p PA SPB	all having a default calling umber containing the addi d", both having the addres angement from the acces	tional calling party nun s presentation restricte s signalling system reg	nber with the ed indicator set
setup	from the access with a speci	ial calling party number.		

TSS CLIR/	TP ISS_V_2_6	ISUP'97 reference 4.5.2.1.1/Q.731 [25]	Selection expression OLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.1.8
To verify that the IUT indicator set to "netwo creening indicator se o "presentation restric Pre-test conditions Arrange the data in IU	can successfully originate a ork provided", a generic nu t to "user provided, not veri cted" and an access trans IT so that there is a special	not verified) with calling sub-a a call having a default calling mber containing the addition ified", both having the addres port parameter containing th arrangement from the acces ag party has subscribed to CL	g party number with the al calling party number as presentation restricte e calling sub-address. as signalling system reg	with the d indicator set
access	SPA SP ->IAM	-		

	TSS CLIR/	TP ISS_V_		ISUP'97 reference 4.5.2.2.1/Q.731 [25]	Selection expression Transit	Q.788 [38] reference None
Test purp						
		on relating to CL				
•				cator in the calling part	y number and in the	generic number
are transf	erred successf	fully to the succe	eding excha	nge.		
Case a)						
SPC	S	SPA	SPB			
	-IAM>	·IAM-	>			
1.	The PTC will	initiate a call set	t up with the	expected parameters.		
2.	CgPN only.					
Case b)						
SPC	S	SPA	SPB			
	-IAM>	·IAM-	>			
1.	The PTC will	initiate a call set	t up with the	expected parameters.		
2.	CoPN and ad	ldCaPN in GenN	lb.	· ·		

TSS CLIR/	TP ISS_V_2_8	ISUP'97 reference 3.5.2.3.1; 4.5.2.3.2; 4.6.5/Q.731 [25]	Selection expression OutIE AND PICS A.5/1	Q.788 [38] reference None
To verify that the ca	ng party number if the present Iling party number is discard s set to "presentation restricte	ded in case of bilateral agree	ments, if the address p	presentation
Pre-test conditions				
Arrange the data in	IUT so that the calling party n	umber is discarded.		
SPC	SPA SI	PB		
IAM	>IAM>			
1. The PTC	will initiate a call set up with t	the expected parameters.		

TSS CLIR/		TP _V_2_9	ISUP'97 reference 3.5.2.3.1; 4.5.2.3.2; 4.6.5/Q.731 [25]	Selection expression OutIE AND PICS A.5/2	Q.788 [38] reference None
Test purpose			· · · · · ·		-
Discarding the ad	ditional calling part	v number if the r	presentation is restricted		
			ne generic number is disc	carded in case of bila	iteral
To verify that the	additional calling pa	arty number in th			iteral
To verify that the	additional calling particular address presentat	arty number in th	ne generic number is disc		iteral
To verify that the agreements, if the Pre-test condition	additional calling pa address presentat s	arty number in the time is a set of time is a set of time is a set of the time is a set of time is a set of the time is a set of tim time is a set of time is a set of time is a set of tim	ne generic number is disc	ion restricted".	iteral
To verify that the agreements, if the Pre-test condition	additional calling pa address presentat s	arty number in the time is a set of time is a set of time is a set of the time is a set of time is a set of the time is a set of tim time is a set of time is a set of time is a set of tim	ne generic number is disc dicator is set to "presentat	ion restricted".	iteral

TSS CLIR/	TP ISS_V_2_10	ISUP'97 reference 4.6.20/Q.731 [25]	Selection expression DLE AND PICS A.3/9 (MCID)	Q.788 [38] reference None
Test purpose				
Presentation of the addr	ess - interaction with MCID			
To verify that the information	ation conveyed in an incomir	ng call (especially the ca l	lling party number and	the additional
calling party number in th	ne generic number) is regis	tered in the network rega	ardless of whether the ca	alling user has
activated the CLIR service	ce or not, if the called user h	as MCID activated.		•
Pre-test conditions				
Arrange the data in the I	UT such that the called user	has activated the MCID	supplementary service of	on a permanent
basis.				
access SPA	SPB			
< <	IAM			
1. Set up a call t				

TSS CLIR/	TP ISS_V_2_11	ISUP'97 reference 4.2.1/Q.731 [25]	Selection expression DLE	Q.788 [38] reference None
To verify that the calling to the access regardless override category. Pre-test conditions	ress - called party has overrid party number and the add of whether the calling user l UT such that the called user	itional calling party number has activated the CLIR se	ervice or not if the calle	
access SPA <setup <<="" td=""><th></th><th></th><th></th><th></th></setup>				
1. Set up a call t	to the access with CgPN and	addCgPN in the GenNb.		

6.2.3 Connected line identification presentation (COLP)

TSS COLP/	TP ISS_V_3_1	ISUP'97 reference 5.5.2.1.1/Q.731 [25]	Selection expression OLE	Q.788 [38] reference 2.3.1
indicators. Pre-test conditions	-	ly a call requesting the COLF arty subscribes to COLP.	? service in the optic	onal forward cal
access SPA				
1. Set up a call fr	om the access with a CC	DLP request.		

Test purpose Passing on information relating to COLP To verify that the IUT passes on transparently the information related to the COLP supplementary service in the optional forward call indicators (forward direction) and the connected number (backward direction). Case a) SPC SPA SPC SPA	TSS COLP/	TP ISS_V_3_2	ISUP'97 reference 5.5.2.2.1/Q.731 [25]	Selection expression Transit	Q.788 [38] reference None
SPC SPA SPB IAM> ACM> ACMACM> ACM> ringing tone ACM 1. The PTC will initiate a call set up with the expected parameters. Case b) SPA SPB <iamacm> ACM> ringing tone ACM> ANM> ACM> 1. The PTC will assist a call set up with the expected parameters. Case c) SPA SPB SPC SPA SPB <iam> </iam></iamacm>	Passing on information r To verify that the IUT pa	sses on transparently the in			
Case b) SPC SPA SPB <iam ACM> ringing tone ANM> 1. The PTC will assist a call set up with the expected parameters. Case c) SPC SPA SPB <iam <iam<="" td=""><td>SPC IAM <acm rin</acm </td><td>->IAM <acm ging tone</acm </td><td>-></td><td></td><td></td></iam></iam 	SPC IAM <acm rin</acm 	->IAM <acm ging tone</acm 	->		
Case c) SPC SPA SPB <iam <iam<="" td=""><td>Case b) SPC <iam ACM rin</iam </td><td>SPA</td><td>SPB -></td><td></td><td></td></iam>	Case b) SPC <iam ACM rin</iam 	SPA	SPB ->		
1. The PTC will assist a call set up with the expected parameters.	Case c) SPC <iam CON</iam 	SPA ; <iam< td=""><td>SPB -></td><td></td><td></td></iam<>	SPB ->		

TSS COLP/	TP ISS_V_3_3	ISUP'97 reference 5.5.2.3.1/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
To verify that the country country code. The natur	ed number to national format y code in the address signals e of address indicator shall b ndicator and the screening in	s of the connected numb be set to "national (signific	ant) number", the addr	
<acm< td=""><td>SPA S ->IAM nging tone <anm< td=""><td></td><td></td><td></td></anm<></td></acm<>	SPA S ->IAM nging tone <anm< td=""><td></td><td></td><td></td></anm<>			
2. Provide Con	initiate a call set up with the Ib to be passed on having A		n country code.	
	SPA >IAM <con< td=""><td></td><td></td><td></td></con<>			
	initiate a call set up with the Ib to be passed on having A		n country code.	

TSS COLP/	TP ISS_V_3_4	ISUP'97 reference 5.5.2.3.1/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
To verify that the countr number", if the numberin nature of address indica indicator and the screen Case a) SPC IAM <acm< td=""><td>al connected number to natio y code in the address signals ng plan indicator is "ISDN Te tor shall be set to "national (s ing indicator shall be transfe SPA ACM ringing tone</td><td>s of the generic number lephony" is removed if it i significant) number", the a rred transparently.</td><td>s the network's own co</td><td>untry code. The</td></acm<>	al connected number to natio y code in the address signals ng plan indicator is "ISDN Te tor shall be set to "national (s ing indicator shall be transfe SPA ACM ringing tone	s of the generic number lephony" is removed if it i significant) number", the a rred transparently.	s the network's own co	untry code. The
2. Provide Cont international Case b) SPC National IAM	initiate a call set up with the Nb: TSP_Nb_B_default and a numbers with the network's c SPA International <con< td=""><td>addConNb in GenNb: TSF own country code. SPB</td><td>P_GenNb_B to be pass</td><td>sed on, both</td></con<>	addConNb in GenNb: TSF own country code. SPB	P_GenNb_B to be pass	sed on, both
2. Provide Conf	initiate a call set up with the Nb: TSP_Nb_B_default and a numbers with the network's c	addConNb in GenNb: TSI	^D _GenNb_B to be pase	sed on, both

TSS COLP/	TP ISS_I_3_5	ISUP'97 reference 5.5.2.3.1/Q.731 [25]	Selection expression OutIE AND PICS A.6/1	Q.788 [38] reference None
	ernational connected numbe added to the connected nu i		ldress indicator is set t	o "unknown".
NOTE: The coding "u	unknown" is a national option	ı (@).		
<acm< td=""><td>SPA IAM> ringing tone <anm initiate a call set up with the</anm </td><td>-</td><td></td><th></th></acm<>	SPA IAM> ringing tone <anm initiate a call set up with the</anm 	-		
2. Provide an in	ternational ConNb with a diff	erent country code than the	ne incoming network (f	oreign CC).
±1	SPA ->IAM <con< td=""><td></td><td></td><th></th></con<>			
	initiate a call set up with the ternational ConNb with a diff		ne incoming network (f	oreign CC).

TSS COLP/	TP ISS_V_3_6	ISUP'97 reference 5.5.2.4.1/Q.731 [25]	Selection expression IncIE AND PICS A.6/2	Q.788 [38] reference None
To verify that the conne restricted indicator is se NOTE: This bilateral	ed number in case of bilatera cted number is discarded in t to "presentation allowed". agreement prohibits the trar	n case of bilateral agreem	number in any case. Th	
Pre-test conditions	entation restricted indicator		ted" is a COLR test.	
SPC IAM <acm rir</acm 	SPA IAM <acm nging tone <anm< td=""><td></td><td></td><td></td></anm<></acm 			
	initiate a call set up with the No to be discarded.	expected parameters.		
SPCIAM	SPA IAM <con< td=""><td></td><td></td><td></td></con<>			
	initiate a call set up with the Nb to be discarded.	expected parameters.		

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
COLP/	ISS_V_3_7	5.5.2.4.1/Q.731 [25]	expression	reference
001.7		0.0.2.1.1, 2.1.0.1 [20]		None
			PICS A.6/3	nono
Test purpose				
	al connected number in case	of bilateral agreements		
To verify that the additio	nal connected number in the	e generic number is disc	arded in case of bilater	al agreements.
	ion restricted indicator is set	-		
Pre-test conditions				
Arrange the data in the	IUT so that the additional cor	nnected number in the ge	neric number is discard	ded.
	agreement prohibits the tran			
	y case. The test with the add			
restricted" is a		•	•	
Case a)				
SPC	SPA	SPB		
	->IAM			
<acm< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td></td><td></td><td></td></acm<>			
	nging tone			
<anm< td=""><td> <anm< td=""><td></td><td></td><td></td></anm<></td></anm<>	<anm< td=""><td></td><td></td><td></td></anm<>			
	initiate a call set up with the			
2. Provide Con	Nb and addConNb in the Ger	nNb to be discarded.		
Case b)				
SPC	SPA	SPB		
	->IAM			
<con< td=""><td> <con< td=""><td></td><td></td><td></td></con<></td></con<>	<con< td=""><td></td><td></td><td></td></con<>			
	initiate a call set up with the			
2. Provide Con	Nb and addConNb in the Ger	nNb to be discarded.		

TSS COLP/	TP ISS_V_3_8	ISUP'97 reference 5.5.2.4.1/Q.731 [25]	Selection expression IncIE AND PICS A.6/4	Q.788 [38] reference 2.3.9
To verify that for a conn	ignals of the connected nun lected number which is not stricted indicator can be cha are reset.	to be released to the origi	nating network the set	
<acm< td=""><td>SPA ->IAM <acm nging tone <anm< td=""><td></td><td></td><td></td></anm<></acm </td></acm<>	SPA ->IAM <acm nging tone <anm< td=""><td></td><td></td><td></td></anm<></acm 			
2. Provide Cont Case b) SPC IAM	SPA ->CON	spb >		
	initiate a call set up with the			

TSS COLP/	TP ISS_V_3_9	ISUP'97 reference 5.5.2.4.1/Q.731 [25]	Selection expression InclE	Q.788 [38] reference None
To verify that the exchar	ernational number" and ca	format ected number into an interr n pass on the address pres	, ,	0
Case a) SPC IAM <acm rin</acm 	SPA >IAM ging tone - <anm< td=""><td></td><td></td><td></td></anm<>			
	initiate a call set up with th nal (significant) ConNb.	ne expected parameters.		
SPCIAM	SPA >IAM - <con< td=""><td></td><td></td><td></td></con<>			
	initiate a call set up with th nal (significant) ConNb.	ne expected parameters.		

TSS COLP/	TP ISS_I_3_10	ISUP'97 reference 5.5.2.5.1/Q.731 [25]	Selection expression	Q.788 [38] reference 2.3.8
Test purpose Handling unrequested CO To verify that the call can		the IUT receives an unsolicit	ed COL.	1010
Case a) access	SPA	SPB		
	>IAM			
-	<acm< td=""><td></td><td></td><td></td></acm<>			
	nging tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
<connecc< td=""><td></td><td></td><td></td><td></td></connecc<>				
1. Set up a call fr	om the access without a	COLP request		
2. No COL reque		COLI Tequesi.		
	s" if the call is correctly s	ot up		
•	s if the call is correctly s	et up.		
Case b)				
access	SPA	SPB		
	>IAM			
<connect< td=""><td> <con< td=""><td></td><td></td><td></td></con<></td></connect<>	<con< td=""><td></td><td></td><td></td></con<>			
1. Set up a call fr	om the access without a			
2. No COL reque		COLI Tequesi.		
		at		
	s" if the call is correctly s	et up.		
Case c)	~			
SPC	SPA	SPB		
	<iam< td=""><td></td><td></td><td></td></iam<>			
ACM	->ACM	>		
rin	nging tone			
ANM	->ANM	>		
	ssist a call set up with th	e expected parameters.		
2. No COL reque				
Verdict is "pas	s" if the call set up contir	lues.		
Case d)				
SPC	SPA	SPB		
<iam< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></iam<>	<iam< td=""><td></td><td></td><td></td></iam<>			
CON	->CON	>		
	· · · · · · · · · · · ·			
	ssist a call set up with th	e expected parameters.		
2. No COL reque				
Verdict is "pas	s" if the call set up contir	lues.		

TSS COLP/	TP ISS_V_3_11	ISUP'97 reference 5.5.2.5.1 i)/Q.731 [25]	Selection expression DLE	Q.788 [38] reference None
	er provided, verified and pass n provide a connected num provided COL is valid.	/	dicator set to "user pro	vided, verified
Case a) access <setup< td=""><td>SPA <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	SPA <iam< td=""><td></td><td></td><td></td></iam<>			
ring	>ACM ying tone >ANM			
1. Set up a call	to the access with a COLP re	equest, access provides v	alid COL.	
-	SPA <iam >CON</iam 			
1. Set up a call	to the access with a COLP re	equest, access provides v	alid COL.	

TSS COLP/	TP ISS_V_3_12	ISUP'97 reference 5.5.2.5.1 i)/Q.731 [25]	Selection expression DLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.3.3
To verify that the IUT ca and passed", if the user sub-address. Pre-test conditions	n provide a connected nu provided COL is valid and	ssed) with connected sub-a mber with the screening in an access transport para	dicator set to "user pro meter containing the co	
Case a)	UT so that the connected p	party has subscribed to SU	В.	
access <setup< td=""><td>- <iam >ACM</iam </td><th></th><td></td><td></td></setup<>	- <iam >ACM</iam 			
	>ANM	->		
1. Set up a call t	o the access with a COLP	request, access provides v	alid COL with sub-add	ress.
access <setup< td=""><td>SPA 5 - <iam >CON</iam </td><th></th><td></td><td></td></setup<>	SPA 5 - <iam >CON</iam 			
1. Set up a call t	o the access with a COLP	request, access provides v	alid COL with sub-add	ress.

TSS COLP/	TP ISS_V_3_13	ISUP'97 reference 5.5.2.5.1 ii)/Q.731 [25]	Selection expression DLE	Q.788 [38] reference None
Test purpose <i>Connected number (new</i> To verify that the IUT ca provided", if the user pro-	an provide a défault conne	ected number with the scree	ning indicator set to '	'network
alert	SPA <iam >ACM ringing tone >ANM</iam 	>		
2. Scrl set to "n Case b) access <setup< td=""><td>to the access with a COLI etwork provided" is implici SPA <iam< td=""><td>SPB</td><td>valid COL.</td><td></td></iam<></td></setup<>	to the access with a COLI etwork provided" is implici SPA <iam< td=""><td>SPB</td><td>valid COL.</td><td></td></iam<>	SPB	valid COL.	
1. Set up a call		P request, access provides in	valid COL.	

TSS COLP/	TP ISS_V_3_14	ISUP'97 reference 5.5.2.5.1 ii)/Q.731 [25]	Selection expression DLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.3.2
To verify that the IUT ca provided", if the user pro- sub-address. Pre-test conditions	ovided COL is not valid ar	ected sub-address ected number with the scree nd an access transport para I party has subscribed to SUI	meter containing the c	
Case a)		party has subscribed to ool	D.	
access <setup< td=""><td>SPA <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	SPA <iam< td=""><td></td><td></td><td></td></iam<>			
	>ACM	>		
	nging tone	~		
		/		
1. Set up a call Case b)	to the access with a COL	P request, access provides i	nvalid COL with sub-ac	ldress.
access	SPA	SPB		
	<iam< td=""><td></td><td></td><td></td></iam<>			
connect	->CON	>		
1. Set up a call	to the access with a COL	P request, access provides v	alid COL with sub-add	ress.

TSS COLP/	TP ISS_V_3_15	ISUP'97 reference 5.5.2.5.1 iii)/Q.731 [25]	Selection expression DLE	Q.788 [38] reference None
provided" and a generic "user provided, not verifi Pre-test conditions Arrange the data in the I	n provide a default conne number containing the a ed". UT so that there is a spec	ected number with the scree additional connected number cial arrangement from the acc	with the screening inc	dicator set to
additional connected nul Case a)	mber.			
access	SPA	SPB		
alert rin	<iam ->ACM ging tone ->ANM</iam 	>		
	to the access with a COLF	P request, access provides s	pecial COL.	
_	SPA <iam ->CON</iam 			
1. Set up a call t	to the access with a COLF	P request, access provides s	pecial COL.	
TSS COLP/	TP ISS_V_3_16	ISUP'97 reference 5.5.2.5.1 iii)/Q.731 [25]	Selection expression DLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.3.4
---	--	--	--	----------------------------------
To verify that the IUT ca provided", a generic nu	n provide a default conne mber containing the addit	ith connected sub-address cted number with the scree ional connected number with parameter containing the con	ning indicator set to "n the screening indicat	
additional connected nus	•	cial arrangement from the ac ted party has subscribed to t	c c .	• •
alert ring	SPA - <iam >ACM ing tone >ANM</iam 	>		
1. Set up a call t	to the access with a COLF	P request, access provides s	pecial COL with sub-a	ddress.
access <setup< td=""><td>SPA - <iam >CON</iam </td><td></td><td></td><td></td></setup<>	SPA - <iam >CON</iam 			
1. Set up a call t	to the access with a COLF	P request, access provides s	pecial COL with sub-a	ddress.

TSS COLP/	TP ISS_V_3_17	ISUP'97 reference 5.5.2.5.1/Q.731 [25]	Selection expression DLE AND NOT PICS A.6/5	Q.788 [38] reference None
"presentation restricted" provided" if the COL car Pre-test conditions	s presentation restricted ind or "address not available" a	nd that the screening indi		
alert	SPA S <iam ging tone ->ANM</iam 	->		
2. "address not 3. restricted Con Case b) access <setup< td=""><td></td><td>SPB</td><td>ovide the COL.</td><td></td></setup<>		SPB	ovide the COL.	
	to the access with a COLP re available" ConNb. nNb.	equest, access doesn't pr	ovide the COL.	

TSS COLP/	TP ISS_V_3_18	ISUP'97 reference 5.6.14/Q.731 [25]	Selection expression DLE	Q.788 [38] reference None
number as the connect Pre-test conditions	<i>MSN</i> ge with MSN can provide the ed number on call answer. IUT such that the called user			
Case a) access <setup alert rir</setup 	SPA S <iam >ACM ging tone >ANM</iam 	>		
2. ConNb - full I 3. ConNb2 - mu Case b) access <setup< td=""><th>to the access with a COLP re SDN number; ConNb.AdSg: Itiple subscriber number; Co SPA SF <iam< th=""><th>TSP_Nb_A. nNb2.AdSg: TSP_Nb_A_ 2B </th><td>MSN.</td><td></td></iam<></th></setup<>	to the access with a COLP re SDN number; ConNb.AdSg: Itiple subscriber number; Co SPA SF <iam< th=""><th>TSP_Nb_A. nNb2.AdSg: TSP_Nb_A_ 2B </th><td>MSN.</td><td></td></iam<>	TSP_Nb_A. nNb2.AdSg: TSP_Nb_A_ 2B 	MSN.	
2. ConNb - full I	to the access with a COLP re SDN number; ConNb.AdSg: Itiple subscriber number; Co	TSP_Nb_A.	MSN.	

6.2.4 Connected line identification restriction (COLR)

TSS COLR/		ISUP'97 reference	Selection	Q.788 [38] reference			
COLK/	ISS_V_4_1	6.5.2.1.1/Q.731 [25]	expression OLE	None			
Test purpose	Test purpose						
Presentation of restricte	d COL						
To verify that a local exc	change will not pass the infor	mation on to the access s	signalling system when	a connected			
number is received in the	ne ANM or CON and its addr	ess presentation restricte	d indicator is set to "pro	esentation			
restricted", i.e. that pres	entation is denied on the use	er-network interface (UNI)					
Pre-test conditions							
Arrange the data in the	IUT such that the calling use	r subscribes to COLP.					
Case a)							
access	SPA S	SPB					
setup	>IAM	->					
	<acm< td=""><th></th><td></td><td></td></acm<>						
ri	nging tone						
<connect< td=""><td> <anm< td=""><th></th><td></td><td></td></anm<></td></connect<>	<anm< td=""><th></th><td></td><td></td></anm<>						
1. Set up a call	from the access with a COLF	P request.					
	verdicts from observations o		nconclusive".				
Case b)							
SPC	SPA	SPB					
setup	>IAM	>					
<connect< td=""><td> <con< td=""><th></th><td></td><td></td></con<></td></connect<>	<con< td=""><th></th><td></td><td></td></con<>						
1. Set up a call	from the access with a COLF	^{>} request.					
2. The possible	verdicts from observations o	on access are "failed" or "i	nconclusive"				

TSS COLR/	TP ISS_I_4_2	ISUP'97 reference 6.5.2.1.2/Q.731 [25]	Selection expression OLE	Q.788 [38] reference None
To verify that the receive number can be conveye Connected Line Presen Pre-test conditions	ed COL to "override category ed connected number and ed successfully to an "overrid tation Restriction (COLR) su	optionally the additional co de category" calling user, pplementary service.	if the called user has a	
Case a) access setup &alert ring		SPB	· · ·	
2. ConNb and a 3. The possible Case b) SPC setup	from the access with a COLF IddConNb in GenNb. verdicts from observations of SPA →IAM→ - ←CON		nconclusive".	
	from the access with a COLF verdicts from observations of		nconclusive".	

TSS COLR/	TP ISS_V_4_3	ISUP'97 r 6.5.2.2.1/G		Selection expression Transit	Q.788 [38] reference None
	shall pass transparently restricted indicator of the				
ACM rin	SPA ←IAM ging tone … →ANM	→			
2. ConNb.	will assist a call set up wi	th the expected para	ameters.		
	SPA <iam- >CON-</iam- 				
1.The PTC2.ConNb.	will assist a call set up wi	th the expected para	ameters.		
ACM	SPA <iam- >ACM- ringing tone >ANM-</iam- 	>			
	will assist a call set up wi nd addConNb in GenNb.	th the expected para	ameters.		
	SPA <iam- >CON-</iam- 				
	will assist a call set up wi id addConNb in GenNb.	th the expected para	ameters.		

TSS COLR/	TP ISS_V_4_4	ISUP'97 reference 6.5.2.4.1/Q.731 [25]	Selection expression IncIE AND PICS A.7/1	Q.788 [38] reference None
To verify that the conne restricted indicator is se Pre-test conditions	ed number if the presentation ected number is discarded in t to "presentation restricted". so that the connected numb	n case of bilateral agreem	ents, if the address pre	esentation
Case a) SPC IAM <acm rir</acm 	SPA ->IAM nging tone <anm< td=""><td>SPB -> -</td><td></td><td></td></anm<>	SPB -> -		
	initiate a call set up with the icted ConNb to be discarded			
	SPA ->IAM <con< td=""><td></td><td></td><td></td></con<>			
	initiate a call set up with the icted ConNb to be discarded			

TSS COLR/	TP ISS_V_4_5	ISUP'97 reference 6.5.2.4.1/Q.731 [25]	Selection expression IncIE AND PICS A.7/2	Q.788 [38] reference None
Test purpose Discarding the additional connected number in the generic number if the presentation is restricted To verify that the additional connected number in the generic number is discarded in case of bilateral agreements, if the address presentation restricted indicator is set to "presentation restricted". Pre-test conditions Arrange the data in IUT so that the additional connected number in the generic number is discarded.				
<acm rin</acm 	SPA IAM ging tone <anm< td=""><td></td><td></td><td></td></anm<>			
2. Provide restri Case b) SPC IAM	initiate a call set up with the cted ConNb and restricted ac SPA 	ddConNb in GenNb to be SPB	discarded.	
	initiate a call set up with the cted ConNb and restricted a		discarded.	

TSS COLR/	TP ISS_I_4_6	ISUP'97 reference 6.5.2.4.1/Q.731 [25]	Selection expression IncIE AND PICS A.7/3	Q.788 [38] reference None
To verify that for a conn	ignals of the connected num ected number which is not the stricted indicator can be char nals are reset.	to be released to the origi	nating network the set	•
Case a)				
SPC	SPA	SPB		
IAM	>IAM	>		
<acm< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td></td><td></td><td></td></acm<>			
ri	nging tone			
<anm< td=""><td>ANM</td><td></td><td></td><td></td></anm<>	ANM			
	initiate a call set up with the cted ConNb to be reset.	expected parameters.		
Case b)				
SPC	SPA	SPB		
~	IAM			
	CON			
	initiate a call set up with the cted ConNb to be reset.	expected parameters.		

TSS COLR/	TP ISS_V_4_7	ISUP'97 reference 6.5.2.5.1/Q.731 [25]	Selection expression DLE	Q.788 [38] reference None
To verify that the IUT ca and passed" and with th provided COL is valid. Pre-test conditions Arrange the data in the	e address presentation re	fied and passed) umber with the screening in stricted indicator set to "pres party has subscribed to CO	sentation restricted", if	•
Case a)	SPA	SPB		
access	SPA <iam< td=""><td></td><td></td><td></td></iam<>			
-	<acm< td=""><td></td><td></td><td></td></acm<>			
	.nging tone	2		
		>		
connece		2		
1. Set up a call t Case b)	to the access with a COLF	Prequest, access provides v	alid COL.	
access	SPA	SPB		
±	<iam< td=""><td></td><td></td><td></td></iam<>			
connect	>CON	>		
1. Set up a call	to the access with a COLF	P request, access provides v	alid COL.	

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
COLR/	ISS_V_4_8	6.5.2.5.1/Q.731 [25]	expression	reference
COLK/	135_V_4_0	0.5.2.5.1/Q.751 [25]	DLE AND	2.3.6
				2.3.0
			PICS A.3/8 (SUB)	
Test purpose				
	umber (user provided, verifie	, ,		
-	in provide a connected nur			
	e address presentation restr			
provided COL is valid. A	dditionally, an access trans	sport parameter containin	g the connected sub-ad	ddress shall
also be provided.				
Pre-test conditions				
Arrange the data in the	IUT so that the connected pa	arty has subscribed to CO	LR and SUB.	
Case a)	I			
access	SPA S	SPB		
<setup< td=""><td> <iam< td=""><td>_</td><td></td><th></th></iam<></td></setup<>	<iam< td=""><td>_</td><td></td><th></th></iam<>	_		
	->ACM>			
rino	aing tone			
connect	->ANM>	>		
1. Set up a call	to the access with a COLP re	equest access provides v	alid COL with sub-add	ress
Case b)				1000.
access	SPA	SPB		
	<iam< td=""><td>512</td><td></td><th></th></iam<>	512		
-				
		- /		
1. Set up a call	to the access with a COLP re	equest, access provides v	valid COL with sub-add	ress.

TSS COLR/	TP ISS_V_4_9	ISUP'97 reference 6.5.2.5.1/Q.731 [25]	Selection expression DLE	Q.788 [38] reference None
To verify that the IUT ca and with the address pre- valid. Pre-test conditions Arrange the data in the I	Imber (network provided) n provide a default connecte esentation restricted indicato UT so that the connected pa	r set to "presentation rest	ricted", if the user prov	
alert	SPA <iam ging tone >ANM></iam 	->		
	to the access with a COLP re	equest, access provides i	nvalid COL.	
-	SPA <iam ->CON</iam 			
1. Set up a call t	to the access with a COLP re	equest, access provides i	nvalid COL.	

TSS COLR/	TP ISS_V_4_10	ISUP'97 reference 6.5.2.5.1/Q.731 [25]	Selection expression DLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.3.5
To verify that the IUT ca provided" and with the a COL is not valid. Additio provided. Pre-test conditions Arrange the data in the I	umber (network provided) wit n provide a default connect ddress presentation restricte nally, an access transport p UT so that the connected pa	ed number with the scree ed indicator set to "presen parameter containing the	ening indicator set to "n tation restricted", if the connected sub-address	user provided
<setup alert ring</setup 	SPA S <iam ->ACM ing tone ->ANM</iam 	>		
2. Scrl "network Case b) access <setup< td=""><td>o the access with a COLP reprovided" is implicit.</td><th>PB</th><td>nvalid COL with sub-ad</td><th>dress.</th></setup<>	o the access with a COLP reprovided" is implicit.	PB	nvalid COL with sub-ad	dress.
	to the access with a COLP reprovided" is implicit.	equest, access provides i	nvalid COL with sub-ad	dress.

TSS COLR/	TP ISS_V_4_11	ISUP'97 reference 6.5.2.5.1/Q.731 [25]	Selection expression DLE	Q.788 [38] reference None
To verify that the IUT can and a generic number con not verified" - both havin Pre-test conditions Arrange the data in IUT s	ontaining the additional or g the address presentations so that there is a special	ected number with the screer onnected number with the sc on restricted indicator set to ' arrangement from the acces	reening indicator set to presentation restricted s signalling system reg	"user provideo".
additional connected nur	mber and that the connec	cted party has subscribed to	COLR.	
access	SPA	SPB		
	<iam< td=""><td></td><td></td><td></td></iam<>			
-	->ACM			
	nging tone			
	->ANM	>		
1. Set up a call t	o the access with a COL	P request, access provides s	special COL.	
Case b)		• • •	•	
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>			
connect	->CON	>		
1. Set up a call t	o the access with a COL	Proquest access provides a		

TSS COLR/	TP ISS_V_4_12	ISUP'97 reference 6.5.2.5.1/Q.731 [25]	Selection expression DLE AND PICS A.3/8 (SUB)	Q.788 [38] reference 2.3.5	
Test purpose Restricted connected number (user provided, not verified) with connected sub-address To verify that the IUT can provide a default calling party number with the screening indicator set to "network provided", a generic number containing the additional connected number with the screening indicator set to "user provided, not verified" - both having the address presentation restricted indicator set to "presentation restricted" and additionally an access transport parameter containing the connected sub-address. Pre-test conditions Arrange the data in IUT so that there is a special arrangement from the access signalling system regarding an additional connected number and that the connected party has subscribed to COLR and SUB.					
Case a)					
access	SPA	SPB			
<setup< td=""><td> <iam< td=""><td></td><td></td><th></th></iam<></td></setup<>	<iam< td=""><td></td><td></td><th></th></iam<>				
	>ACM	>			
	nging tone				
connect	>ANM	>			
1. Set up a call t Case b)	to the access with a COLP re	equest, access provides s	special COL with sub-a	ddress.	
access	SPA	SPB			
<setup< td=""><td> <iam< td=""><td></td><td></td><th></th></iam<></td></setup<>	<iam< td=""><td></td><td></td><th></th></iam<>				
connect	>CON	>			
1. Set up a call t	to the access with a COLP re	equest, access provides s	special COL with sub-a	ddress.	

6.2.5 Terminal portability (TP)

TSS TP/	TP ISS_V_5_1	ISUP'97 reference 4.5.2.1.1 a)/	Selection expression OLE	Q.788 [38] reference
Test purpose		EN 300 356-20 [22]	ULE	2.12.1
	uested by the calling party			
To verify that the calling	party can suspend and resu	me an outgoing call and t	that user initiated SUS	and RES
messages are sent to the	e succeeding exchange.			
Pre-test conditions				
0	UT so that the calling party s		al portability service.	
400000		SPB		
1	->IAM			
	<acm< td=""><th></th><th></th><td></td></acm<>			
	nging tone			
	<anm< td=""><th></th><th></th><td></td></anm<>			
	k communication			
	->SUS			
up-resume	->RES	>		
1. Set up a call f	from SPA to SPB.			
	call by the calling party (ISD)	N subscriber).		
	call by the calling party (ISD)	,		

TSS TP/	TP ISS_V_5_2	ISUP'97 reference 4.5.2.1.1 b)/ EN 300 356-20 [22]	Selection expression OLE	Q.788 [38] reference 2.12.1
To verify that IUT inform	uested by the called party is the calling party that a sus ated SUS and RES message		been requested by the	called party
<alert ri <connect chec <tp-suspend-< td=""><td>SPA S > </td><td></td><td></td><td></td></tp-suspend-<></connect </alert 	SPA S >			
2. Suspend the	from SPA to SPB. call by the called party (ISDN call by the called party (ISDN			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
TP/	ISS I 5 3	4.5.2.1.2/	expression	reference
,	100_1_0_0	EN 300 356-20 [22]	Local	2.12.2
Test purpose			Local	2.12.2
	uested by local served user,	no Posumo offor Suspon	d	
, , ,				niraa haaayaa
the local served user do	released with cause #102 (re	covery on timer expiry) b		pires because
Pre-test conditions	es not resume the call.			
	IUT so that the local user sub	scribes to the Terminal r	ortability service	
access	SPA	SPB	onability service.	
	>IAM	512		
-	<acm< td=""><td></td><td></td><td></td></acm<>			
	ringing tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	k communication			
	>SUS	>		
		T2		
<disconnect-< td=""><td>REL</td><td>></td><td></td><td></td></disconnect-<>	REL	>		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
1. Set up a call	from SPA to SPB.			
	call by the calling party (ISD)	N subscriber).		
	call is released with cause #1			

TSS TP/	TP ISS_V_5_4	ISUP'97 reference 4.5.2.1.1/	Selection expression	Q.788 [38] reference
		EN 300 356-20 [22]	Local	None
Test purpose				<u>.</u>
Terminal portability, rele	ase suspended call			
To verify that a suspend	ed call can be released by	the IUT, if the local user or	the remote user relea	ases the call.
Case a)				
access	SPA	SPB		
-	>IAM			
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
	iging tone			
<connect< td=""><td> <anm< td=""><td></td><td></td><td></td></anm<></td></connect<>	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
1 1	->SUS			
disconnect	>REL	>		
	from SPA to SPB.			
	call by the calling party (IS			
3. Release the s	suspended call by the loca	l user.		
Case b)				
access	SPA	SPB		
1	>IAM			
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
	nging tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
1 1	->SUS			
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	from SPA to SPB.			
-	call by the calling party (IS			
Release the s	suspended call by the remo	ote user.		

TSS TP/	TP ISS_V_5_5	ISUP'97 reference 4.5.2.2.1 a); 4.5.2.3.1; 4.5.2.4.1/ EN 300 356-20 [22]	Selection expression IntermE	Q.788 [38] reference None
Test purpose				
	uested by the calling party			
	and RES messages are pas	ssed on transparently by the	e IUT, if the calling part	ty requests the
service.				
510	5111 5	PB		
	>IAM>			
	- <acm< td=""><td></td><td></td><td></td></acm<>			
	nging tone			
<anm< td=""><td>- <anm< td=""><td></td><td></td><td></td></anm<></td></anm<>	- <anm< td=""><td></td><td></td><td></td></anm<>			
check d	communication			
SUS>	>SUS>			
RES>	>RES>			
1. Set up a call	from SPA to SPB.			
	call by the calling party (IS	DN subscriber)		
•	call by the calling party (IS	,		
	can by the calling party (10			

TSS TP/	IS	TP S_V_5_6	ISUP'97 reference 4.5.2.2.1 b); 4.5.2.3.1;	Selection expression IntermE	Q.788 [38] reference None
			4.5.2.4.1/	Internic	None
			4.5.2.4.1/ EN 300 356-20 [22]		
Testaturases			EN 300 336-20 [22]		
Test purpose			:		
	oility, requested by t				
To verify that th	e SUS and RES me	essages are pass	ed on transparently by the	e IUT, if the called party	/ requests the
service.					
SPC	SPA		SPB		
<iam-< td=""><td> <</td><td>IAM</td><th>-</th><td></td><td></td></iam-<>	<	IAM	-		
ACM-	>	ACM	>		
	ringing tor	ne			
ANM-	>	-ANM	>		
cl	neck communicat	ion			
SUS	>		>		
RES-	>	RES	>		
11LD		1.20	-		
1. Set u	up a call from the UI	NI at SPB.			
			the call (ISDN subscriber)	
	1 2		the call (ISDN subscriber)	,.	

3. The called party at UNI at SPC resumes the call (ISDN subscriber).

TSS TP/	TP ISS_V_5_7	ISUP'97 reference 4.5.2.5.1 a)/ EN 300 356-20 [22]	Selection expression DLE	Q.788 [38] reference 2.12.1
To verify that the IUT in	uested by the calling party forms the called party that su iated SUS and RES message		been requested by the	calling party
<pre><setupalert></setupalert></pre>	SPA SI < <iam< td=""> SI > <acm< td=""> SI > <acm< td=""> SI > <acm< td=""> SI > <acm< td=""> SI > <</acm<></acm<></acm<></acm<></iam<>	PΒ		
2. The calling p	from the UNI at SPB. arty at SPB suspends the cal arty at SPB resumes the call	. ,		

TSS TP/	TP ISS_V_5_8	ISUP'97 reference 4.5.2.5.1 b)/ EN 300 356-20 [22]	Selection expression DLE	Q.788 [38] reference 2.12.1
To verify that the called messages are sent to th Pre-test conditions	uested by the called party party can suspend and resu he preceding exchange. IUT so that the called party s	C C		and RES
access S <setup alert> ringir connect> check co tp-suspend></setup 	SPA SPB <iam< td=""> - ACM> - ng tone - ANM> - ommunication - SUS> - RES> -</iam<>			
2. The called pa	from the UNI at SPB. arty at UNI at SPA suspends arty at UNI at SPA resumes t		,	

TSS NO_TP/	TP ISS_I_5_9	ISUP'97 reference 4.5.2.3.2; 4.5.2.4.2/ EN 300 356-20 [22]	Selection expression Gateway AND NOT PICS A.3/5 AND PICS A.8/1	Q.788 [38] reference None
Test purpose				
	ional network does not supp			
To verify that the SUS a	nd RES messages are disc	carded by the IUT without i	notification if the served	user requests
suspend and resume, b	ut the national network doe	s not support the Terminal	portability service.	
SPC S	SPA SI	2B		
<iam< td=""><td><iam< td=""><td></td><td></td><td></td></iam<></td></iam<>	<iam< td=""><td></td><td></td><td></td></iam<>			
ACM>	>			
rin	ging tone			
>ANM>	>			
check	communication			
SUS>				
	Nothing is observe	ed		
RES>				
1. Set up a call	from the UNI at SPB.			

TSS TP/	TP ISS_V_5_10	ISUP'97 reference 4.6.13.3/ EN 300 356-20 [22]	Selection expression Local AND PICS A.9/8	Q.788 [38] reference None
To verify that a request and if the IUT is the sus Pre-test conditions Arrange the data in the	uest for UUS3 while call is su for User-to-user signalling se pend controlling exchange. IUT so that the local user sub	ervice 3 is rejected by the		
User-to-user signalling service 3. access SPA secures Secures secures Secures secures Secures secures Secures secures Secures secures Secures secures Secures </td				
2. The called pa	from the UNI at SPB. arty suspends the call (ISDN arty resumes the call (ISDN s	,		

6.2.6 User-to-user signalling (UUS)

6.2.6.1 User-to-user signalling service 1 (UUS1)

TSS UUS/UUS1_I/	TP ISS_V_6_1_1	ISUP'97 reference 1.1.2.1/Q.737 [33]	Selection expression OLE AND PICS A.9/1	Q.788 [38] reference None
Test purpose				
32 octets user-to-user in				
,	n successfully initiate a call l	having 32 octets of user-	to-user information in	the messages
related to the set up or t	he release of the call.			
Pre-test conditions				
Arrange the data in the I	IUT so that the user has sub	scribed to the UUS1 supp	plementary service.	
access	SPA	SPB		
setup(UUInf)-	>IAM(UUInf))>		
,	<acm(uuinf)< th=""><td>) — — — — —</td><td></td><td></td></acm(uuinf)<>) — — — — —		
r	inging tone			
<connect(uuinf)< td=""><th> <anm(uuinf)< th=""><td>)</td><td></td><td></td></anm(uuinf)<></th></connect(uuinf)<>	<anm(uuinf)< th=""><td>)</td><td></td><td></td></anm(uuinf)<>)		
chec	k communication			
<disc(uuinf)-< td=""><th> <rel(uuinf)< th=""><td>) — — — — —</td><td></td><td></td></rel(uuinf)<></th></disc(uuinf)-<>	<rel(uuinf)< th=""><td>) — — — — —</td><td></td><td></td></rel(uuinf)<>) — — — — —		
	RLC	>		
1. Set up a call f	from UNI at SPA to SPB with	n 32 octets of user-to-use	r information.	

UUS/UUS1_I/		ISUP'97 reference	Selection	Q.788 [38]
	ISS_V_6_1_2	1.1.5.2.1.1.1;	expression	reference
		1.1.5.2.1.1.3; 1.1.5.2.2-	OLE OR IntermE	2.15.1
		4.1/Q.737 [33]		
Fest purpose		· · · · · · · · · · · · · · · · · · ·		
JUS1 implicit - request				
o verify that the IUT ca	n successfully initiate/transit	t a call with an UUS 1 impl	icit request, having the	user-to-user
nformation parameter	in the IAM, without the user	-to-user indicators paran	neter.	
Pre-test conditions (in ca	ase of OLE)			
Arrange the data in the l	UT so that the user has sub	scribed to the UUS1 supp	lementary service.	
Case a)				
access	SPA	SPB		
- · · · · ·	>IAM(UUInf			
· · · · ·	<acm(uuinf< td=""><td>)</td><td></td><td></td></acm(uuinf<>)		
	inging tone			
· · · · ·	<anm(uuinf< td=""><td>)</td><td></td><td></td></anm(uuinf<>)		
	k communication			
<disc(uuinf)< td=""><td> <rel(uuinf< td=""><td></td><td></td><td></td></rel(uuinf<></td></disc(uuinf)<>	<rel(uuinf< td=""><td></td><td></td><td></td></rel(uuinf<>			
	RLC	>		
I. Set up a call f	from UNI at SPA to SPB with	h user-to-user information.		
Case b)				
SPC	SPA	SPB		
· · /	>IAM(UUInf)			
. ,	<pre> <acm(uuinf)< pre=""></acm(uuinf)<></pre>			
	ringing tone			
	<anm(uuinf)< td=""><td></td><td></td><td></td></anm(uuinf)<>			
	heck communication .			
	<rel(uuinf)< td=""><td></td><td></td><td></td></rel(uuinf)<>			
RLC	>RLC	>		
I. Set up a call f	from UNI at SPA to SPB with	h user-to-user information.		

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_I/	ISS_I_6_1_3	1.1.5.2.5.2.3; 1.1.5.2.2-	expression	reference
		4.2/Q.737 [33]	OLE OR IntermE	2.15.2
Test purpose				
UUS1 implicit - discarde	d with indication received			
To verify that the IUT ca	n, after successfully initiatin	g/transiting a call with an l	JUS1 implicit request,	continue normal
call set up if the first bac	kward message is received	with the user-to-user ind	licators set to "user-to-	-user
information discarded by	/ the network".			
NOTE: The user-to-u	ser information is discarded	because the following ne	twork does not support	: it.
Pre-test conditions (in ca	ase of OLE)	×		
	IUT so that the user has sub	scribed to the UUS1 supp	lementary service.	
Case a)		••	2	
access	SPA	SPB		
	>IAM(UUInf			
<alert< td=""><td> <acm(uuinf o<="" td=""><td>disc)</td><td></td><td></td></acm(uuinf></td></alert<>	<acm(uuinf o<="" td=""><td>disc)</td><td></td><td></td></acm(uuinf>	disc)		
1. Set up a call f	from UNI at SPA to SPB wit	h user-to-user information		
First backwar	d message with user-to-use	r indicators set to "UUInf o	discarded by the netwo	rk".
Case b)	X		•	
SPC	SPA	SPB		
IAM(UUInf)	>IAM(UUInf)>		
<acm(uuinf dis<="" td=""><td>sc) <acm(uuinf d<="" td=""><td>isc)</td><td></td><td></td></acm(uuinf></td></acm(uuinf>	sc) <acm(uuinf d<="" td=""><td>isc)</td><td></td><td></td></acm(uuinf>	isc)		
1. Set up a call f	from UNI at SPA to SPB wit	h user-to-user information		
2. First backwar	d message with user-to-use	r indicators set to "UUInf o	discarded by the netwo	rk".

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_I/	ISS I 6 1 4	1.1.5.2.5.2.3; 1.1.5.2.3-	expression	reference
		5.2/Q.737 [33]	OLE OR IntermE	None
Test purpose				
	d but no indication received	,		
	n successfully initiate/transit		cit request, and comple	ete the call if no
indication is provided in	the backward direction.		• • •	
NOTE: The user-to-u	ser information is discarded	because:		
1) the rem	ote network is unable to pas	ss the service 1 in any me	ssage.	
2) the rem	ote user may not be able to	interpret incoming UUS ir	nformation.	
Pre-test conditions (in ca	ase of OLE)			
Arrange the data in the I	UT so that the user has sub	scribed to the UUS1 supp	lementary service.	
Case a)				
access	SPA	SPB		
	>IAM(UUInf)			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	ging tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
<disc< td=""><td> <</td><td></td><td></td><td></td></disc<>	<			
	KTC	>		
1. Set up a call f	rom UNI at SPA to SPB with	h user-to-user information		
2. No indication	in the first backward messa	ge.		
Case b)		×		
SPC	SPA	SPB		
. , ,	>IAM(UUInf)			
,) <acm< td=""><td></td><td></td><td></td></acm<>			
	ging tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
	<rel< td=""><td></td><td></td><td></td></rel<>			
RLC	>RLC	>		
1. Set up a call f	rom UNI at SPA to SPB wit	h user-to-user information		
	regarding UUS1 in the first		•	

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_I/	ISS_V_6_1_5	1.1.5.2.1.1.1;	expression	reference
		1.1.5.2.1.1.3; 1.1.5.2.3-	IntermE OR DLE	2.15.1
		5.1/Q.737 [33]		
Test purpose				
UUS1 implicit - acceptar				" I I A
	n successfully transit/accept			
	n parameter in the ACM, C	PG, ANM, CON, SGM or I	REL as implicit accepta	ance (no user-
to-user indicators).				
Pre-test conditions (in ca	,			
	UT so that the user has sub-	scribed to the UUS1 suppl	lementary service.	
Case a)				
access	SPA TAN(ITT 5)	SPB		
	<iam(uuinf)-< td=""><td></td><td></td><td></td></iam(uuinf)-<>			
, ,	>ACM(UUInf)-	>		
	inging tone			
, , ,	>ANM(UUInf)- k communication	>		
	<rel(uuinf)-< td=""><td></td><td></td><td></td></rel(uuinf)-<>			
	REL(001111)-			
	KLC	>		
1. Set up a call f	rom UNI at SPB to SPA with	user-to-user information		
Case b)		ruser-to-user information.		
SPC	SPA	SPB		
	<iam(uuinf)< td=""><td></td><td></td><td></td></iam(uuinf)<>			
. ,	>ACM(UUInf)			
, ,	inging tone			
	>ANM(UUInf))>		
. ,	k communication			
	<rel(uuinf)< td=""><td>)</td><td></td><td></td></rel(uuinf)<>)		
· · · - · /	RLC			
	_			
1. Set up a call f	rom UNI at SPB to SPA with	user-to-user information.		

TSS UUS/NO_UUS1_I/	TP ISS_I_6_1_6	ISUP'97 reference 1.1.5.2.5.2.3; 1.1.5.2.3- 5.2/Q.737 [33]	Selection expression IntermE OR DLE	Q.788 [38] reference 2.15.2
Test purpose				
UUS1 implicit - discard v	vith indication generated			
To verify that the IUT ca	n successfully transit/accept	a call with an UUS1 impli	cit request and set the	user-to-user
indicators to "user-to-us unable to support it.	ser information discarded by	the network" in the first b	ackward message, if th	ne network is
NOTE: The user-to-u	ser information is discarded	because the network doe	s not support it.	
Pre-test conditions				
Arrange the data in the I	UT such that the network do	es not support the UUS1	service.	
Case a)				
access	SPA	SPB		
	<iam(uuinf< td=""><td></td><td></td><td></td></iam(uuinf<>			
alert	>ACM(UUInf	disc)->		
1. Set up a call f	rom UNI at SPB to SPA with	user-to-user information		
2. Check "user-t	o-user information discarded	d by the network" in the fir	st backward message	(ACM).
Case b)				
SPC	SPA	SPB		
	<iam(uuinf< td=""><td></td><td></td><td></td></iam(uuinf<>			
ACM(UUInf disc)>ACM(UUInf di	lsc)>		
	rom UNI at SPB to SPC with			
Check "user-t	o-user information discarded	d by the network" in the fir	st backward message	(ACM).

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_E/	ISS_V_6_1_7	1.1.5.2.1.1.2; 1.1.5.2.2-	expression	reference
		4.1/Q.737 [33]	OLE OR IntermE	2.15.3
Fest purpose				
JUS1 explicit non-esser				
	n successfully initiate/transi			
• •	e user-to-user information	parameter and the user-t	o-user indicators in the	ne IAM set to
request, not essential".				
Pre-test conditions (in ca				
	UT so that the user has sub	oscribed to the UUS1 supp	lementary service.	
Case a)				
access	SPA	SPB		
	>IAM(UUInf			
	<acm(uuinf ing tone</acm(uuinf) UUSI expii	cit response	
	<anm(uuinf< td=""><td>)</td><td></td><td></td></anm(uuinf<>)		
,	communication	1		
	<rel(uuinf< td=""><td>)</td><td></td><td></td></rel(uuinf<>)		
	RLC	,		
1. Set up a call f	from UNI at SPA to SPB wit	h user-to-user information		
	e Service 1 field in the UUIr			
Case b)				
SPC	SPA	SPB		
	->IAM(UUInf)-	1	-	
	<acm(uuinf)-< td=""><td> UUS1 explici</td><td>t response</td><td></td></acm(uuinf)-<>	UUS1 explici	t response	
	nging tone			
(/	<anm(uuinf)-< td=""><td></td><td></td><td></td></anm(uuinf)-<>			
	communication			
<kel(uuini)< td=""><td> <rel(uuinf)-< td=""><td></td><td></td><td></td></rel(uuinf)-<></td></kel(uuini)<>	<rel(uuinf)-< td=""><td></td><td></td><td></td></rel(uuinf)-<>			
	ктс	>		
Set up a call f	from LINIL of SDA to SDD with	hugar to upor information	and upor to upor corri	a indiaatara
	from UNI at SPA to SPB wit e Service 1 field in the UUIr			ce muicators.
		iu is set to Tequest, HOLES		

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_E/	ISS_I_6_1_8	1.1.5.2.5.2.3;	expression	reference
-		1.1.5.2.2-4.2/Q.737 [33]	OLE OR IntermE	2.15.5
Test purpose				
	ntial - explicit rejection rece			
	n successfully initiate/trans			
	up if the UUS1 service is e			rameter is
	provided" in the ACM or C		_).	
	ser information is discarded			
,	work is unable to pass the		0	
,	note user may not be able to	o interpret incoming UUS ir	nformation.	
Pre-test conditions (in ca				
	UT so that the user has su	bscribed to the UUS1 supp	lementary service.	
Case a)				
access	SPA	SPB		
_	>IAM(UUInf	_	_	
	<acm(uuind< td=""><td>a) UUSI explic:</td><td>it response</td><td></td></acm(uuind<>	a) UUSI explic:	it response	
	ging tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
<dise< td=""><td>REL</td><td></td><td></td><td></td></dise<>	REL			
		>		
1. Set up a call	from UNI at SPA to SPB wi	th user-to-user information	and user-to-user servi	ce indicators
	rvice 1 field in the UUInd is			
	onse "Service not provided			
Case b)				
SPC	SPA	SPB		
IAM(UUInf)	>IAM(UUInf)> UUS1 explic:	it request	
	<acm(uuind< td=""><td></td><td></td><td></td></acm(uuind<>			
	nging tone	-	-	
<con< td=""><td> <anm< td=""><td></td><td></td><td></td></anm<></td></con<>	<anm< td=""><td></td><td></td><td></td></anm<>			
check	communication			
<rel< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></rel<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
	from UNI at SPA to SPB wi			ce indicators.
	rvice 1 field in the UUInd is		ial".	
Send the response	oonse "Service not provideo	d" in the ACM.		

TSS UUS/UUS1 E/	TP ISS 6_1_9	ISUP'97 reference 1.1.5.2.5.2.3;	Selection expression	Q.788 [38] reference
003/0031_L/	100_1_0_1_9	1.1.5.2.2-4.2/Q.737 [33]	OLE OR IntermE	2.15.4
To verify that the IUT ca	ntial - implicit (no explicit) re n successfully initiate/transi up if no indication is provide	t a call with an UUS1 expli		est, and
1) the net 2) the rem Pre-test conditions (in ca	iser information is discarded work is unable to pass the e note user may not be able to ase of OLE) IUT so that the user has sub	explicit service 1 in any mean o interpret incoming UUS in	nformation.	
<alert(uuind)- ri <connect check</connect </alert(uuind)- 	SPA SPA SPA SPA SPA SPA SPA SPA) UUS1 explic	-	
2. Check the Se 3. Send the resp Case b) SPC IAM(UUInf) <acm(uuind) rin <con check</con </acm(uuind) 	from UNI at SPA to SPB wit rvice 1 field in the UUInd is ponse "no information" in the SPA >IAM(UUInf) <acm(uuind) aging tone <anm c communication</anm </acm(uuind) 	set to "request, not essent e ACM. SPB > UUS1 explic: UUS1 explic:	ial". it request	ce indicators.
1. Set up a call 2. Check the Se	from UNI at SPA to SPB wit rvice 1 field in the UUInd is ponse "no information" in the	> h user-to-user information set to "request, not essent		ce indicators.

TSS UUS/UUS1_E/	TP ISS_I_6_1_10	ISUP'97 reference 1.1.5.2.2.2; Table 1-1/Q.737 [33]	Selection expression Gateway AND PICS A.9/5	Q.788 [38] reference 2.15.5
	ntial rejection in Gateway explicit non-essential service vice 1 not provided".	e can be rejected and the	user-to-user indicato	rs are in the
 NOTE: The user-to-user service is rejected because: the gateway received a CFN from the succeeding network (note 3 table 1-1). the gateway has received user-to-user information in the SGM (Basic call PICS A.13/7) and the succeeding network does not support the segmentation procedure (note 2 table 1-1). 				
SPC <iam(uuinf) CFN(UUInd) r CON check</iam(uuinf) 	SPA <iam(uuinf)- >ACM(UUInd)- >ANM communication <rel< td=""><td>SPB UUS1 explicit > UUS1 explicit ></td><td>request</td><td></td></rel<></iam(uuinf)- 	SPB UUS1 explicit > UUS1 explicit >	request	
2. The Service '	from UNI at SPB to SPA with I field in the UUInd is set to " sponse "Service not provided	request, not essential".	and user-to-user servio	ce indicators.

TSS UUS/UUS1_E/	TP ISS_V_6_1_11	ISUP'97 reference 1.1.5.2.1.1.2; 1.1.5.2.3-	Selection expression	Q.788 [38] reference
		5.1/Q.737 [33]	IntermE OR DLE	2.15.3
Test purpose				
UUS1 explicit non-esser				
	n successfully transit/accept			
transferring/including the	e user-to-user indicators pa	arameter in the ACM, CP	G, ANM, CON or REL	set to "service
provided".				
Pre-test conditions (in ca				
Arrange the data in the I	IUT so that the user has sub-	scribed to the UUS1 supp	lementary service.	
Case a)				
access	SPA	SPB		
	:) <iam(uuir< th=""><td></td><th></th><td></td></iam(uuir<>			
	:)>ACM(UUIr	nf)> UUS1 expl	icit response	
	ringing tone			
•	:)>ANM(UUIr	,		
	leck communication			
<disc(uuinf)< td=""><th> <rel(uuir< th=""><td>,</td><th></th><td></td></rel(uuir<></th></disc(uuinf)<>	<rel(uuir< th=""><td>,</td><th></th><td></td></rel(uuir<>	,		
	RLC	>		
	from UNI at SPB to SPA with		and user-to-user servi	ce indicators.
	I field in the UUInd is set to "			
	sponse "Service provided" in	the ACM.		
Case b)				
SPC	SPA	SPB		
	<iam(uuinf< th=""><td>· -</td><th>-</th><td></td></iam(uuinf<>	· -	-	
· · /	>ACM(UUInd	d)> UUSI expli	cit response	
	ringing tone	E) >		
	communication	_)====>		
	<rel(uuinf< th=""><td>F)</td><th></th><td></td></rel(uuinf<>	F)		
<keu(001111)-< td=""><th>RLC</th><td></td><th></th><td></td></keu(001111)-<>	RLC			
	KDC			
1. Set up a call f	from LINIL of CDP to CDA with	upor to upor information	and upor to upor com	an indiantara
	from UNI at SPB to SPA with		and user-to-user servi	ce indicators.
	I field in the UUInd is set to "			
S. Check the res	sponse "Service provided" in			

TSS UUS/NO_UUS1_E/	TP ISS_I_6_1_12	ISUP'97 reference 1.1.5.2.5.2.2; 1.1.5.2.2- 5.2/Q.737 [33]	Selection expression IntermE OR DLE	Q.788 [38] reference 2.15.4
To verify that the IUT ca		ejection sent n an UUS1 explicit non-ess meter in the ACM , CPG , A I		ect the service
	or the user cannot support			
Pre-test conditions (in ca				
Case a)		11		
alert r connect check	SPA <iam(uuir >ACM inging tone >ANM communication REL RLC</iam(uuir 	>	it request	
 The Service 1 Check that the 	field in the UUInd is set to	th user-to-user information "request, not essential". ators parameter in the ACM		ce indicators.
ACM r CON check	SPA <iam(uuinf >ACM inging tone >ANM communication <rel< td=""><td>></td><td>it request</td><td></td></rel<></iam(uuinf 	>	it request	
2. The Service 1	field in the UUInd is set to	th user-to-user information "request, not essential". ators parameter in the ACM		ce indicators.

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_E/	ISS_V_6_1_13	1.1.5.2.1.1.2; 1.1.5.2.2-	expression	reference
		5.1/Q.737 [33]	OLE OR IntermE	2.15.3
Fest purpose				
JUS1 explicit essential				
	n successfully originate/tran			
	the IAM the user-to-user in			
'request, essential" and	the ISDN user part preferen	ce indicator in the forward	d call indicators set to	o "ISUP
equired all the way".				
Pre-test conditions (in ca				
Arrange the data in the I	UT so that the user has sub	scribed to the UUS1 supp	lementary service.	
Case a)				
access	SPA	SPB		
	>IAM(UUInf)			
<alert(uuinf)-< td=""><td> <acm(uuinf)< td=""><td> UUS1 explicit</td><td>t response</td><td></td></acm(uuinf)<></td></alert(uuinf)-<>	<acm(uuinf)< td=""><td> UUS1 explicit</td><td>t response</td><td></td></acm(uuinf)<>	UUS1 explicit	t response	
	nging tone			
	<anm(uuinf)< td=""><td></td><td></td><td></td></anm(uuinf)<>			
	ommunication			
<disc(uuinf)< td=""><td> <rel(uuinf)< td=""><td></td><td></td><td></td></rel(uuinf)<></td></disc(uuinf)<>	<rel(uuinf)< td=""><td></td><td></td><td></td></rel(uuinf)<>			
	RLC	>		
	rom UNI at SPA to SPB with			
	e Service 1 field in UUInd is	•	and the ISDN user pa	rt preference
	CI is set to "ISUP required a	ll the way".		
Case b)				
SPC	SPA TAN(ITT C)	SPB		
	>IAM(UUInf)	±	-	
	<acm(uuinf)< td=""><td> UUSI explicit</td><td>t response</td><td></td></acm(uuinf)<>	UUSI explicit	t response	
	nging tone <anm(uuinf)< td=""><td></td><td></td><td></td></anm(uuinf)<>			
, ,	communication			
	<rel(uuinf< td=""><td>)</td><td></td><td></td></rel(uuinf<>)		
< KEE(001111) ==	RLC	,		
		-		
1. Set up a call f	rom UNI at SPA to SPB with	h user-to-user information	and user-to-user servi	ce indicators
•	e Service 1 field in UUInd is			
	CI is set to "ISUP required a		una ine iobri user pa	r protototio
		in the way .		

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_E/	ISS_I_6_1_14	1.1.5.2.5.2.2; 1.1.5.2.2-	expression	reference
		5.2/Q.737 [33]	OLE OR Gateway	None
Test purpose				
	- implicit rejection (no explicit			
	e can be rejected if no indic			
	r indicators set to "no infor	mation" or "not provided") is	s received in the first b	ackward
message (implicit reject				
	does not understand the se	ervice 1 request. In this case	e the call should be rel	eased.
Pre-test conditions (in c				
	IUT so that the user has su	bscribed to the UUS1 supp	lementary service.	
Case a)	~~~			
access	SPA	SPB		
1)>IAM(UUIr <acm< th=""><td>· · ·</td><td>t request</td><td></td></acm<>	· · ·	t request	
disc				
	<rlc< th=""><td></td><td></td><td></td></rlc<>			
1. Set up a call	UNI at SPA to SPB with use	er-to-user information and i	user-to-user service inc	dicators.
	ne service 1 field in UUInd is			
	CI is set to "ISUP required a			
3. The call shou	Ild be released with cause #	29 or #69, because the us	er-to-user indicators pa	arameter in the
ACM is recei	ved with "no information" at	bout the service 1.		
Case b)				
SPC	SPA	SPB		
	>IAM(UUInf)-		equest	
	<acm< th=""><td></td><td></td><td></td></acm<>			
<rel< td=""><th></th><td></td><td></td><td></td></rel<>				
RLC	> <rlc< th=""><td></td><td></td><td></td></rlc<>			
1 Cotup a call		or to uppr information and	upor to upor por itas in	diaatara
	UNI at SPA to SPB with use the Service 1 field in UUInd is			
	Cl is set to "ISUP required a	•	and the ISDN user pa	it preference
	Id be released with cause #	5	er-to-user indicators of	arameter in the
	ved with "no information" at			

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_E/	ISS_V_6_1_15	1.1.5.2.1.1.2; 1.1.5.2.2-	expression	reference
000/0001_L/	100_1_0_1_10	5.1/Q.737 [33]	DLE OR IntermE	2.15.3
Test purpose				
UUS1 explicit essential	- acceptance			
To verify that the IUT ca	in successfully complete a c eter in the ACM, CPG, ANM			g the user-to-
Pre-test conditions (in ca				
	IUT so that the user has sub	scribed to the UUS1 supp	lementary service.	
Case a)			ionioniary connect	
access	SPA	SPB		
<setup(uuinf)< td=""><td> <iam(uuin< td=""><td>f) UUS1 expl:</td><td>icit request</td><td></td></iam(uuin<></td></setup(uuinf)<>	<iam(uuin< td=""><td>f) UUS1 expl:</td><td>icit request</td><td></td></iam(uuin<>	f) UUS1 expl:	icit request	
	>ACM(UUIn			
	ringing tone	, <u> </u>	-	
	>ANM(UUIn	f)>		
check	communication			
<disc(uuinf)< td=""><td> <rel(uuin< td=""><td>f)</td><td></td><td></td></rel(uuin<></td></disc(uuinf)<>	<rel(uuin< td=""><td>f)</td><td></td><td></td></rel(uuin<>	f)		
	RLC	>		
1. Set up a call	from UNI at SPB to SPA wit	h user-to-user information	and user-to-user servi	ce indicators.
	1 field in the UUInd is set to			
	sponse "Service provided" ir			
Case b)				
SPC	SPA	SPB		
<iam(uuinf)< td=""><td> <iam(uuinf)< td=""><td> UUS1 explicit</td><td>t request</td><td></td></iam(uuinf)<></td></iam(uuinf)<>	<iam(uuinf)< td=""><td> UUS1 explicit</td><td>t request</td><td></td></iam(uuinf)<>	UUS1 explicit	t request	
	>ACM(UUInd)			
	ringing tone	_	-	
CON(UUInf)	>ANM(UUInf)	>		
chec	ck communication			
<rel(uuinf)< td=""><td> <rel(uuinf)< td=""><td></td><td></td><td></td></rel(uuinf)<></td></rel(uuinf)<>	<rel(uuinf)< td=""><td></td><td></td><td></td></rel(uuinf)<>			
	RLC	>		
	RLC			
	RLC	,		
1. Set up a call from UN			er-to-user service indica	ators.
	I at SPB to SPA with user-to the UUInd is set to "request	o-user information and use	er-to-user service indica	ators.

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/NO_UUS1_E/	ISS_I_6_1_16	1.1.5.2.5.2.2; 1.1.5.2.2- 5.2/Q.737 [33]	expression DLE OR IntermE	reference 2.15.6; 2.15.7
Test purpose				2.13.7
UUS1 explicit essential	- rejection			
	e can be rejected with a REL	having the Cause value	29 "facility rejected" or	69 "requested
	', either with diagnostics (spe			
	or the called user cannot sup			
Case a)				
access	SPA	SPB		
<setup(uuinf)< td=""><td> <iam(uuinf)-< td=""><td> UUS1 explicit</td><td>t request</td><td></td></iam(uuinf)-<></td></setup(uuinf)<>	<iam(uuinf)-< td=""><td> UUS1 explicit</td><td>t request</td><td></td></iam(uuinf)-<>	UUS1 explicit	t request	
disc	>REL	>	-	
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
1. Set up a call	from UNI at SPB to SPA with	user-to-user information	and user-to-user servi	ce indicators.
2. The call shou	Id be released with cause #2	9 or #69.		
Case b)				
SPC	SPA	SPB		
	<iam(uuinf)-< td=""><td></td><td>request</td><td></td></iam(uuinf)-<>		request	
	>REL			
<rlc< td=""><td> <rlc< td=""><td></td><td></td><td></td></rlc<></td></rlc<>	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	from UNI at SPB to SPA with		and user-to-user servi	ce indicators.
2. The call shou	Id be released with cause #2	9.		
Case c)				
SPC	SPA	SPB		
	<iam(uuinf)< td=""><td>1</td><td>t request</td><td></td></iam(uuinf)<>	1	t request	
	>REL			
<rlc< td=""><td> <rlc< td=""><td></td><td></td><td></td></rlc<></td></rlc<>	<rlc< td=""><td></td><td></td><td></td></rlc<>			

1. 2. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. The call should be released with cause #69.

<pre>services. Case a) access SPA SPB setup(UUInf)>IAM(UUInf)> UUS1, 2 explicit request <alert(uuinf) <acm(uuinf)=""> UUS1, 2 explicit response ringing tone user info>USR> <user info=""> <aim(uuinf) check communication <disc(uuinf) <aim(uuinf)<br="">RLC> 1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service india 2. Check that the Service 1, 2 fields in UUInd are set each to "request, not essential". 3. Support of Service 2 Case b) access SPA SPB <setup(uuinf)> <iam(uuinf)> UUS1, 3 explicit request alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone conn(UUInf)>AIM(UUInf)> UUS3 explicit response check communication <user info=""> <</user></iam(uuinf)></setup(uuinf)></disc(uuinf)></aim(uuinf) </user></alert(uuinf)></pre>	TSS UUS/UUS1_E/	TP ISS_V_6_1_17	ISUP'97 reference 1.1.6.13.2; 1.1.6.13.3/Q.737 [33]	Selection expression Local AND (PICS A.9/6 OR PICS A.9/8)	Q.788 [38] reference None
Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementa services. Case a) access SPA SPB setup(UUInf)>IAM(UUInf)> UUS1, 2 explicit request <alert(uuinf)>ACM(UUInf) UUS1, 2 explicit response ringing tone user info>USR> <disc(uuinf) <anm(uuinf)<br=""> check communication <disc(uuinf) <rel(uuinf)<br=""> check communication 2. Check that the Service 1, 2 fields in UUInd are set each to "request, not essential". 3. Support of Service 2 Case b) access SPA SPB <ealert(uuinf) 3="" <acm(uuinf)="" explicit="" request<br="" uus1,="">alert(UUInf)>ACM(UUInf) UUS1, 3 explicit request alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone conn(UUInf)>ACM(UUInf)> UUS3 explicit response check communication <user info="">ACM(UUInf)> UUS3 explicit response check communication <user info="">USR <</user></user></ealert(uuinf)></disc(uuinf)></disc(uuinf)></alert(uuinf)>	US1 interaction with UU o verify that more than o			at call set up.	
<pre>access SPA SPB setup(UUInf)>IAM(UUInf)> UUS1, 2 explicit request <alert(uuinf)>ACM(UUInf)> UUS1, 2 explicit response ringing tone user info>USR> <connect(uuinf) <anm(uuinf)<br=""> check communication <disc(uuinf) <rel(uuinf)<br="">RLC> 1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service india 2. Check that the Service 1, 2 fields in UUInd are set each to "request, not essential". 3. Support of Service 2 Case b) access SPA SPB <alert(uuinf)>ACM(UUInf)> UUS1, 3 explicit request alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone conn(UUInf)>ANM(UUInf)> UUS3 explicit response check communication <user info=""> <usr user info> <</usr </user></alert(uuinf)></disc(uuinf)></connect(uuinf)></alert(uuinf)></pre>	rrange the data in the II	JT so that the user has sub	oscribed to the UUS1 and	UUS2 (or UUS3) supple	ementary
<pre>setup(UUInf)>IAM(UUInf)> UUS1, 2 explicit request <alert(uuinf) 2="" <acm(uuinf)="" explicit="" response<="" td="" uus1,=""><td>ase a)</td><th></th><td></td><td></td><td></td></alert(uuinf)></pre>	ase a)				
<alert(uuinf) 2="" <acm(uuinf)="" explicit="" response<br="" uus1,=""> ringing tone user info>USR> <connect(uuinf) <anm(uuinf)<br=""> check communication <disc(uuinf) <rel(uuinf)<br="">RLC> 1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service india 2. Check that the Service 1, 2 fields in UUInd are set each to "request, not essential". 3. Support of Service 2 Case b) access SPA SPB <setup(uuinf) 3="" <iam(uuinf)="" explicit="" request<br="" uus1,="">alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone conn(UUInf)>ACM(UUInf)> UUS3 explicit response check communication <user info=""> <usr user info> <rel(uuinf)> UUS3 explicit response </rel(uuinf)></usr </user></setup(uuinf)></disc(uuinf)></connect(uuinf)></alert(uuinf)>	,	SPA	SPB		
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<connect(uuinf) <anm(uuinf)<br=""> check communication <disc(uuinf) <rel(uuinf)<br="">RLC> 1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service india 2. Check that the Service 1, 2 fields in UUInd are set each to "request, not essential". 3. Support of Service 2 Case b) access SPA SPB <setup(uuinf) 3="" <iam(uuinf)="" explicit="" request<br="" uus1,="">alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone conn(UUInf)>ANM(UUInf)> UUS3 explicit response check communication <user info=""> <usr> <disc(uuinf)> <rel(uuinf)></rel(uuinf)></disc(uuinf)></usr></user></setup(uuinf)></disc(uuinf)></connect(uuinf)>	user info	>USR	>		
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<pre>2. Check that the Service 1, 2 fields in UUInd are set each to "request, not essential". 3. Support of Service 2 Case b) access SPA SPB <setup(uuinf) 3="" <iam(uuinf)="" explicit="" requestalert(uuinf)="" uus1,="">ACM(UUInf)> UUS1 explicit response</setup(uuinf)></pre>					
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Case b) access SPA SPB <setup(uuinf) 3="" <iam(uuinf)="" explicit="" request<br="" uus1,="">alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone conn(UUInf)>ANM(UUInf)> UUS3 explicit response check communication <user info=""> <usr> <disc(uuinf)> <rel(uuinf)< td=""><td></td><th></th><td>nd are set each to "reques</td><td>st, not essential".</td><td></td></rel(uuinf)<></disc(uuinf)></usr></user></setup(uuinf)>			nd are set each to "reques	st, not essential".	
<pre>access SPA SPB <setup(uuinf) 3="" <iam(uuinf)="" explicit="" request<br="" uus1,="">alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone conn(UUInf)>ANM(UUInf)> UUS3 explicit response check communication <user <usr<br="" info="">user info>USR> <disc(uuinf) <rel(uuinf)<="" pre=""></disc(uuinf)></user></setup(uuinf)></pre>		rvice 2			
<pre><setup(uuinf) 3="" <iam(uuinf)="" explicit="" requestalert(uuinf)="" uus1,="">ACM(UUInf)> UUS1 explicit response</setup(uuinf)></pre>	ase b)				
<pre>alert(UUInf)>ACM(UUInf)> UUS1 explicit response</pre>					
<pre> ringing toneconn(UUInf)>ANM(UUInf)> UUS3 explicit response check communication <user <usruser="" info=""> <usr> <disc(uuinf) <rel(uuinf)<="" pre=""></disc(uuinf)></usr></user></pre>			· _	-	
conn(UUInf)>ANM(UUInf)> UUS3 explicit response check communication <user info="">USR> <disc(uuinf) <rel(uuinf)<="" td=""><td></td><th></th><td>> UUS1 explicit</td><td>response</td><td></td></disc(uuinf)></user>			> UUS1 explicit	response	
check communication <user <usr<br="" info="">user info>USR> <disc(uuinf) <rel(uuinf)<="" td=""><td></td><th>5 5</th><td></td><td></td><td></td></disc(uuinf)></user>		5 5			
<user <usr="" info=""> user info>USR> <disc(uuinf) <rel(uuinf)<="" td=""><td></td><th></th><td>> UUS3 explicit</td><td>response</td><td></td></disc(uuinf)></user>			> UUS3 explicit	response	
> <disc(uuinf) <rel(uuinf)<="" td=""><td></td><th></th><td></td><td></td><td></td></disc(uuinf)>					
<disc(uuinf) <rel(uuinf)<="" td=""><td></td><th></th><td></td><td></td><td></td></disc(uuinf)>					
	aisc(UUInt)				
XIC>		KTC	>		

TSS UUS/UUS1_E/	TP ISS_V_6_1_18	ISUP'97 reference 1.1.6.13.2; 1.1.6.13.3/Q.737 [33]	Selection expression DLE AND (PICS A.9/6 OR PICS A.9/8)	Q.788 [38] reference None
To verify that the service "requested facility not im requested, one of them i Pre-test conditions	US2 (or UUS3) - unsuccess es can be rejected with a RE plemented", either with diag s essential and it cannot be UT so that the user has subs	L having the Cause valu nostics (user-to-user ind provided.	dicators name), if more	e services are
	SPA - <iam(uuinf) >REL <rlc< td=""><th>-></th><th>icit request</th><th></th></rlc<></iam(uuinf) 	->	icit request	
•	JNI at SPB to SPA with user Id be released with cause #2			

TOO	TD	10110107	Ostastian	0 700 [00]
		ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS1_E/	ISS_V_6_1_19	1.1.6.13.2;	expression	reference
		1.1.6.13.3/Q.737 [33]	Local AND	None
			(PICS A.9/6 OR PICS A.9/8)	
Test purpose				
	US2 (or UUS3) - independe			
	n successfully complete a ca			
	meter in the ACM, CPG, AN			
	e can be rejected and the us	er-to-user indicators in	the ACM, CPG, ANM, (CON or REL
are set to "service 2 (or 3	not provided".			
Pre-test conditions				
Arrange the data in the I	IUT so that the user has subs	scribed to the UUS1 and	UUS2 (or UUS3) suppl	ementary
services.				
Case a)				
access	SPA	SPB		
- · · · ·	>IAM(UUInf)-			
<alert(uuinf)-< td=""><td> <acm(uuinf)-< td=""><td> UUS1, 2 expli</td><td>cit response</td><td></td></acm(uuinf)-<></td></alert(uuinf)-<>	<acm(uuinf)-< td=""><td> UUS1, 2 expli</td><td>cit response</td><td></td></acm(uuinf)-<>	UUS1, 2 expli	cit response	
	ringing tone			
user info	>USR			
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
<connect(uuinf)< td=""><td> <anm(uuinf)-< td=""><td> UUS 3 explici</td><td>t response</td><td></td></anm(uuinf)-<></td></connect(uuinf)<>	<anm(uuinf)-< td=""><td> UUS 3 explici</td><td>t response</td><td></td></anm(uuinf)-<>	UUS 3 explici	t response	
	k communication			
<disc(uuinf)-< td=""><td> <rel(uuinf)-< td=""><td></td><td></td><td></td></rel(uuinf)-<></td></disc(uuinf)-<>	<rel(uuinf)-< td=""><td></td><td></td><td></td></rel(uuinf)-<>			
	RLC	>		
	from UNI at SPA to SPB with			ce indicators.
	e Service 1, 2, 3 fields in UU	Ind are set each to "requ	est, not essential".	
Support of Se	Prvice 2.			
Case b)				
access	SPA	SPB		
	<iam(uuinf)-< td=""><td></td><td></td><td></td></iam(uuinf)-<>			
alert(UUInf)	>ACM(UUInf)-	> UUS1, 2 expli	cit response	
	ringing tone			
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
	>USR			
connect(UUInf	:)>ANM(UUInf)-	> UUS 3 explici	t response	
che	ck communication			
<disc(uuinf)< td=""><td> <rel(uuinf)-< td=""><td></td><td></td><td></td></rel(uuinf)-<></td></disc(uuinf)<>	<rel(uuinf)-< td=""><td></td><td></td><td></td></rel(uuinf)-<>			
	RLC	>		
	from UNI at SPB to SPA with			ce indicators.
	I, 2, 3 fields in UUInd are set	each to "request, not es	sential".	
Support of Se	ervice 2.			

Interfaction Interfaction Local AND PICS A.9/8 None Test purpose UUS1 interaction with UUS3 requested after call set up To verify that the IUT can successfully originate/complete a call with UUS1, having requested UUS3 after call set up The Service 1 field in the user-to-user indicators in the FAR, FAA or FRJ for UUS1 is then set to "no information" Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services. Clase a) access SPA SPB setup(UUInf)> IAM(UUInf)> UUS1 explicit request <alert(uuinf)> </alert(uuinf)>	TSS UUS/UUS1 E/	TP ISS_V_6_1_20	ISUP'97 reference 1.1.6.13.3;	Selection expression	Q.788 [38] reference
UUS1 interaction with UUS3 nequested after call set up To verify that the IUT can successfully originate/complete a call with UUS1, having requested UUS3 after call set up The Service 1 field in the user-to-user indicators in the FAR, FAA or FRJ for UUS1 is then set to "no information" Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services. Case a) access SPA setup(UUInf)> SPB actup(UUInf)> ACM(UUInf)> actup(UUInf)> SPA		100_1_0_1_10		Local AND	
To verify that the IUT can successfully originate/complete a call with UUS1, having requested UUS3 after call set up The Service 1 field in the user-to-user indicators in the FAR, FAA or FRJ for UUS1 is then set to "no information" Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services. Case a) access SPA SPB setup(UUInf)ACM(UUInf) UUS1 explicit request <					
The Service 1 field in the user-to-user indicators in the FAR, FAA or FRJ for UUS1 is then set to "no information" Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services. Case a) access SPA SPBsetup(UUInf)>IAM(UUInf)> UUS1 explicit request <alert(uuinf)> <acm(uuinf)> UUS1 explicit response ringing tone <connect(uuinf)> <arm(uuinf)> UUS3 request <> UUS3 request <> UUS3 response</arm(uuinf)></connect(uuinf)></acm(uuinf)></alert(uuinf)>					
<pre>Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services. Case a) access SPA SPB setup(UUInf)>IAM(UUInf)> UUS1 explicit request <alert(uuinf) <acm(uuinf)=""> UUS3 explicit response ringing tone <facility-req>FAR> UUS3 request <facility-req>FAR> UUS3 request <disc(uuinf) <<="" td=""><td></td><td></td><td></td><td></td><td></td></disc(uuinf)></facility-req></facility-req></alert(uuinf)></pre>					
Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS3 supplementary services. Case a) access SPA SPB setup(UUInf)>IAM(UUInf)> UUS1 explicit request <alert(uuinf)> <anm(uuinf)> UUS1 explicit response ringing tone <connect(uuinf) <anm(uuinf)=""> UUS3 request <facility-ind> <faa> UUS3 request <disc(uuinf) <faa=""> UUS3 reguest <disc(uuinf) <<="" td=""><td></td><td>e user-to-user indicators ir</td><td>n the FAR, FAA or FRJ for</td><td>UUS1 is then set to</td><td>"no information".</td></disc(uuinf)></disc(uuinf)></faa></facility-ind></connect(uuinf)></anm(uuinf)></alert(uuinf)>		e user-to-user indicators ir	n the FAR, FAA or FRJ for	UUS1 is then set to	"no information".
Case a) access SPA SPB setup(UUInf)>ACM(UUInf)> UUS1 explicit request <alert(uuinf)>ACM(UUInf) check communication facility-req>FAR> UUS3 request <facility-req>FAR UUS3 response user info>USR <disc(uuinf) <rel(uuinf)<br=""><</disc(uuinf)></facility-req></alert(uuinf)>					
access SPA SPB setup(UUInf)> ACM(UUInf)> UUS1 explicit request <alert(uuinf)< td=""> <acm(uuinf)< td=""> UUS1 explicit response ringing tone <connect(uuinf)< td=""> <acm(uuinf)< td=""> UUS3 request <facility-ind< td=""> <</facility-ind<></acm(uuinf)<></connect(uuinf)<></acm(uuinf)<></alert(uuinf)<>		UT so that the user has sub	scribed to the UUS1 and L	JUS3 supplementary	services.
<pre>setup(UUInf)>IAM(UUInf)> UUS1 explicit request <alert(uuinf)> <acm(uuinf)> UUS1 explicit response 'connect(UUInf)> <arm(uuinf)> check communication <facility-req>FAR> UUS3 request <facility-ind> <</facility-ind></facility-req></arm(uuinf)></acm(uuinf)></alert(uuinf)></pre>	,				
<alert(uuinf) <acm(uuinf)="" explicit="" response<br="" uus1=""> ringing tone <connect(uuinf) <arm(uuinf)<br=""> check communication facility-reg>FAR UUS3 request <tacility-ind <far="" response<br="" uus3="">user info></tacility-ind></connect(uuinf)></alert(uuinf)>					
<pre> ringing tone <connect(uuinf) <anm(uuinf)<br=""> check communication facility-req>FAR> UUS3 request <facility-ind <far<="" td=""><td></td><td></td><td>-</td><td>-</td><td></td></facility-ind></connect(uuinf)></pre>			-	-	
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<pre> check communicationfacility-req>FAR> UUS3 request <facility-ind <far=""> UUS3 responseuser info>USR</facility-ind></pre>		3 3	、 、		
<pre>facility-req>FAR> UUS3 request <facility-ind>FAR UUS3 response user info>USR <</facility-ind></pre>) = = = = =		
<facility-ind <faa="" response<br="" uus3="">user info>USR <disc(uuinf) <rel(uuinf)<br=""></disc(uuinf)></facility-ind>					
<pre>user info>USR</pre>					
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<pre><disc(uuinf) <rel(uuinf)rlc=""> 1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. Check request of service 3 in FAR. Case b) access SPA SPB <setup(uuinf)iam(uuinf)> UUS1 explicit requestalert(UUInf)>ANM(UUInf)> UUS1 explicit response ringing toneconnect(UUInf)>ANM(UUInf)> UUS3 requestfacility-req <far> UUS3 response <user-info>> </user-info></far></setup(uuinf)iam(uuinf)></disc(uuinf)></pre>					
<pre>RLC> 1. Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. Check request of service 3 in FAR. Case b) access SPA SPB <setup(uuinf)iam(uuinf)> UUS1 explicit requestalert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing toneconnect(UUInf)>ARM((UUInf)> UUS3 requestfacility-req <far> UUS3 requestfacility-ind>FAR> UUS3 requestuser-info>USR> <user-info>USR> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR.</user-info></far></setup(uuinf)iam(uuinf)></pre>					
 Set up a call from UNI at SPA to SPB with user-to-user information and user-to-user service indicators. Check that the Service 1 fields in UUInd is set to "request, not essential". Check request of service 3 in FAR. Case b) access SPA SPB <setup(uuinf)iam(uuinf) alert(uuinf)="" explicit="" request="" uus1="">ACM(UUInf)> UUS1 explicit response</setup(uuinf)iam(uuinf)>			,		
2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. Check request of service 3 in FAR. Case b) access SPA SPB <setup(uuinf)iam(uuinf) explicit="" p="" request<="" uus1="">alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing toneconnect(UUInf)>ARM(UUInf)> check communication <facility-req <far="" p="" request<="" uus3="">facility-ind>FAA> UUS3 response <user-info>USR> <disc(uuinf) <=""> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR.</disc(uuinf)></user-info></facility-req></setup(uuinf)iam(uuinf)>		120	-		
2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. Check request of service 3 in FAR. Case b) access SPA SPB <setup(uuinf)iam(uuinf) explicit="" p="" request<="" uus1="">alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing toneconnect(UUInf)>ARM(UUInf)> check communication <facility-req <far="" p="" request<="" uus3="">facility-ind>FAA> UUS3 response <user-info>USR> <disc(uuinf) <=""> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR.</disc(uuinf)></user-info></facility-req></setup(uuinf)iam(uuinf)>	1. Set up a call f	rom UNI at SPA to SPB with	h user-to-user information	and user-to-user ser	vice indicators.
Case b) access SPA SPB <setup(uuinf)iam(uuinf) explicit="" request<br="" uus1="">alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone connect(UUInf)>ANM(UUInf)> check communication <facility-req <far="" request<br="" uus3="">facility-ind>FAA> UUS3 response <user-info> UUS3 response <user-info> <usr> <disc(uuinf) <rel(uuinf)<br="">RLC> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR.</disc(uuinf)></usr></user-info></user-info></facility-req></setup(uuinf)iam(uuinf)>					
access SPA SPB <setup(uuinf)< td=""> IAM(UUInf) UUS1 explicit request alert(UUInf)> ACM(UUInf)> UUS1 explicit response ringing tone connect(UUInf)> ACM(UUInf)> check communication </setup(uuinf)<>	3. Check reques	at of service 3 in FAR.	• •		
<pre><setup(uuinf)iam(uuinf) explicit="" request<br="" uus1="">alert(UUInf)>ACM(UUInf)> UUS1 explicit response ringing tone connect(UUInf)>ANM(UUInf)> check communication <facility-req <far="" request<br="" uus3="">facility-ind>FAA> UUS3 response <user-info> <usr> user-info> <usr> <disc(uuinf) <rel(uuinf)<br="">> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR.</disc(uuinf)></usr></usr></user-info></facility-req></setup(uuinf)iam(uuinf)></pre>	Case b)				
<pre>alert(UUInf)>ACM(UUInf)> UUS1 explicit response</pre>					
<pre> ringing toneconnect(UUInf)>ANM(UUInf)> check communication <facility-req <far="" requestfacility-ind="" uus3="">FAA> UUS3 response <user-info <usr=""> <usr> <disc(uuinf) <rel(uuinf)rlc=""> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR.</disc(uuinf)></usr></user-info></facility-req></pre>	<setup(uuinf)-< td=""><td>IAM(UUInf)</td><td> UUS1 explicit</td><td>request</td><td></td></setup(uuinf)-<>	IAM(UUInf)	UUS1 explicit	request	
<pre>connect(UUInf)>ANM(UUInf)></pre>	alert(UUInf)-	>ACM(UUInf)	> UUS1 explicit	response	
 check communication <facility-req <far="" li="" request<="" uus3=""> facility-ind>FAA> UUS3 response <user-info <usr=""></user-info> <disc(uuinf) <rel(uuinf)<="" li=""> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR. </disc(uuinf)></facility-req>					
<pre><facility-req <far="" requestfacility-ind="" uus3="">FAA> UUS3 response <user-info> <usr> <disc(uuinf) <=""> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR.</disc(uuinf)></usr></user-info></facility-req></pre>		(/	>		
<pre>facility-ind>FA> UUS3 response <user-info>USR>user-info>USR> <disc(uuinf) "request,="" 1="" 1.="" 2.="" 3="" 3.="" <rel(uuinf)="" a="" and="" at="" call="" check="" essential".="" far.<="" fields="" from="" in="" indicators.="" information="" is="" not="" pre="" requested="" service="" set="" spa="" spb="" that="" the="" to="" uni="" up="" user-to-user="" uuind="" with=""></disc(uuinf)></user-info></pre>					
<pre><user-info <usr<="" td=""><td></td><td></td><td></td><td></td><td></td></user-info></pre>					
 user-info>USR> <disc(uuinf) <rel(uuinf)<="" li=""> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR. </disc(uuinf)>					
<pre><disc(uuinf) <rel(uuinf)rlc=""> 1. Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. 2. Check that the Service 1 fields in UUInd is set to "request, not essential". 3. The service 3 is requested in FAR.</disc(uuinf)></pre>					
 Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. Check that the Service 1 fields in UUInd is set to "request, not essential". The service 3 is requested in FAR. 					
 Set up a call from UNI at SPB to SPA with user-to-user information and user-to-user service indicators. Check that the Service 1 fields in UUInd is set to "request, not essential". The service 3 is requested in FAR. 	<disc(uuini)-< td=""><td></td><td></td><td></td><td></td></disc(uuini)-<>				
 Check that the Service 1 fields in UUInd is set to "request, not essential". The service 3 is requested in FAR. 		ктс	>		
 Check that the Service 1 fields in UUInd is set to "request, not essential". The service 3 is requested in FAR. 	1 Set up a coll f	rom LINI at SPR to SPA with	huser-to-user information	and user-to-user con	vice indicators
3. The service 3 is requested in FAR.					
4. The service 3 is provided in FAA.					
5. Send/Receive user-to-user information.		•			

TSS UUS/UUS1_E/	TP ISS_V_6_1_21	ISUP'97 reference 1.1.6.15/Q.737 [33]	Selection expression Local AND PICS A.3/16 (HOLD)	Q.788 [38] reference None
party during the clearing Pre-test conditions	n successfully complete a ca			
access <setup alert rin hold</setup 		SPB - > >		
	PG may contain UUInf. UInf is received in the REL.			

TSS UUS/UUS1_E/	TP ISS_V_6_1_22	ISUP'97 reference 1.1.6.15/Q.737 [33]	Selection expression Local AND PICS A.3/16 (HOLD)	Q.788 [38] reference None
held party during the cle Pre-test conditions	n successfully complete a ca	-	·	
access <setup alert ri hold</setup 	SPA SF - - - - - - - - - - - - - - - - - - - - - -	B UUInf present		
1. IAM, ACM, C 2. Send UUInf ir	PG may contain UUInf. n the REL.			

TSS UUS/UUS1_E/	TP ISS_V_6		3	7 reference 3.6.13/ 9 356-20 [22]	express	ction ion OLE S A.3/18	Q.788 [38] reference None
Test purpose New UUS1 requested in To verify that the IUT do sent by the IUT should r the served user in respo Pre-test conditions Arrange the data in the I	es not store any not contain any u nse to the CCB	user-to-user in S recall.	nformation	n if no new use	er-to-user inf	ormation is	provided from
access	SPA		SPB		0020000		
setup	>	-IAM	> UU	Inf present	-		
<disconnect< td=""><td></td><td>-RLC</td><td></td><th></th><td></td><td></td><td></td></disconnect<>		-RLC					
CCBS recall>IAM> No new UUInf is sent in the CCBS recall : CCBS call						BS recall	
		REL					
2.User at SPB i3.Check that use	to busy user at \$ is found busy. C ser at SPB beco tion "CCBS call"	heck that the mes free by us	UUInf is sing the	received in the RemoteUserFr	IAM. ee CCBS A	•	n.

TSS UUS/UUS1_E/	TP ISS_V_6_1_24	ISUP'97 reference 3.6.13/ EN 300 356-20 [22]	Selection expression OLE AND	Q.788 [38] reference None
			PICS A.3/18	
Test purpose				
UUS1 interaction with C	CBS			
To verify that the IUT is	able to include user-to-user i	information in the CCBS of	call (IAM) if the served	user includes
user-to-user information	in response to the CCBS re-	call.		
Pre-test conditions				
Arrange the data in the I	UT so that the user has sub-	scribed to the UUS1 and	CCBS supplementary s	services.
access	SPA	SPB		
setup	->IAM	->		
<disconnect-< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect-<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	->		
	TCAP transaction	1		
CCBS recall	->IAM	-> UUInf is sent in CCBS call	the CCBS recall	
<alert(uuinf)-< td=""><td> <acm(uuinf)< td=""><td></td><td></td><td></td></acm(uuinf)<></td></alert(uuinf)-<>	<acm(uuinf)< td=""><td></td><td></td><td></td></acm(uuinf)<>			
	ringing tone			
<connect(uuinf)< td=""><td> <anm(uuinf)< td=""><td></td><td></td><td></td></anm(uuinf)<></td></connect(uuinf)<>	<anm(uuinf)< td=""><td></td><td></td><td></td></anm(uuinf)<>			
check	communication			
	<rel< td=""><td></td><td></td><td></td></rel<>			
1. Set up a call t	o busy user at SPB.			
	s found busy.			
	er at SPB becomes free by	using the RemoteUserFre	e CCBS ASE operatio	n.
	ion "CCBS call" in the IAM.			

6.2.6.2 User-to-user signalling service 2 (UUS2)

TSS UUS/UUS2/	TP ISS_V_6_2_1	ISUP'97 refere 1.2.2.1/Q.737		Q.788 [38] reference None
messages during call se Pre-test conditions	n successfully initiate a t up.	-	f user-to-user information	in the USR
Arrange the data in the i	SPA	SPB	2 supplementary service.	
	>IAM		licit request	
<alert< td=""><td> <acm< td=""><td> UUS2 res</td><td>ponse</td><td></td></acm<></td></alert<>	<acm< td=""><td> UUS2 res</td><td>ponse</td><td></td></acm<>	UUS2 res	ponse	
	ringing tone			
	>USR			
	<usr< td=""><td></td><td></td><td></td></usr<>			
<connect< td=""><td> <anm< td=""><td></td><td></td><td></td></anm<></td></connect<>	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
<diga< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></diga<>	<rel< td=""><td></td><td></td><td></td></rel<>			
< uise		>		

TSS UUS/UUS2/	TP ISS_V_6_2_2	ISUP'97 reference 1.2.5.2.1.1.2; 1.2.5.2.2- 5.1/Q.737 [33]	Selection expression OLE OR IntermE	Q.788 [38] reference 2.16.1
Test purpose				
UUS2 explicit non-esser	ntial - request			
To verify that the IUT ca	n successfully originate/trai	nsit a call with an UUS2 ex	plicit non-essential req	uest, having the
user-to-user indicators	in the IAM set to "request,	not essential".		
Pre-test conditions (in ca	ase of OLE)			
Arrange the data in the I	UT so that the user has sul	bscribed to the UUS2 supp	lementary service.	
Case a)				
access	SPA	SPB		
setup	>IAM	> UUS2 explicit	request	
<alert< td=""><td> <acm< td=""><td> UUS2 response</td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td> UUS2 response</td><td></td><td></td></acm<>	UUS2 response		
	ringing tone	_		
user info	>USR	>		
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
<connect< td=""><td> <anm< td=""><td></td><td></td><td></td></anm<></td></connect<>	<anm< td=""><td></td><td></td><td></td></anm<>			
che	ck communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. Set up a call f	rom UNI at SPA to SPB wi	th user-to-user service 2 re	auest.	
	field in the UUInd is set to		4.001	
	-to-user information.			
	user information.			
Case b)				
SPC	SPA	SPB		
	>IAM		request	
	<acm< td=""><td>-</td><td>2010000</td><td></td></acm<>	-	2010000	
	inging tone	cost tosponse		
	>USR	>		
	<usr< td=""><td></td><td></td><td></td></usr<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
	<rel< td=""><td></td><td></td><td></td></rel<>			
	>RLC			
		-		
	rom UNI at SDC to SDD	thugar to upor convice 0 re	aucot	
	rom UNI at SPC to SPB wi			
	rvice 2 field in the UUInd is	ser to request, not essent	lidi .	
	-to-user information.			
Send user-to-	user information.			

TSS	ТР	ISUP'97 reference	Selection	0 700 [20]
	••			Q.788 [38]
UUS/UUS2/	ISS_V_6_2_3	1.2.5.2.1.1.2; 1.2.5.2.2-	expression	reference
		5.1/Q.737 [33]	DLE OR IntermE	2.16.1
Test purpose				
UUS2 explicit non-esse				
	n successfully complete a c		ion-essential request, h	naving the user-
to-user indicators para	meter in the ACM or CPG s	et to "service provided".		
Pre-test conditions (in ca	ase of DLE)			
Arrange the data in the	UT so that the user has sub	scribed to the UUS2 supp	lementary service.	
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td> UUS2 explicit :</td><td>request</td><td></td></iam<></td></setup<>	<iam< td=""><td> UUS2 explicit :</td><td>request</td><td></td></iam<>	UUS2 explicit :	request	
alert	>ACM	> UUS2 explicit :	response	
	(CPG	> UUS2 explicit :	response)	
ring	ing tone			
<user info<="" td=""><td><usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
	>USR			
connect	>ANM	>		
check co	mmunication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. Set up a call	from UNI at SPB to SPA with	h user-to-user service 2 re	equest.	
	2 field in the UUInd is set to			
3. Check the response "Service provided" in the ACM or in CPG.				
	user information.			
5. Receive user	-to-user information.			

TSS UUS/NO_UUS2/	TP ISS_I_6_2_4	ISUP'97 reference 1.2.5.2.5.2.2; 1.2.5.2.2- 5.2/Q.737 [33]	Selection expression DLE or IntermE	Q.788 [38] reference 2.16.3
To verify that the UUS2 "service 2 not provided".		the user-to-user indicate	ors in the ACM or CPC	are set to
	or the user cannot support U			
access	SPA	SPB		
	<iam< td=""><td></td><td></td><td></td></iam<>			
alert	->ACM	> UUS2 explicit :	response	
	(CPG	> UUS2 explicit :	response)	
ri	nging tone			
	->ANM	>		
	ck communication			
	<rel< td=""><td></td><td></td><td></td></rel<>			
, dibe	RLC			
		<i>*</i>		
 Set up a call from UNI at SPB to SPA with user-to-user service 2 request. The Service 2 field in the UUInd is set to "request, not essential". Check the response "Service not provided" in the ACM or in CPG. 				

TSS UUS/NO_UUS2/	TP ISS_I_6_2_5	ISUP'97 reference 1.2.5.2.5.2.3; 1.2.5.2.2-5.2/Q.737 [33]	Selection expression DLE OR IntermE	Q.788 [38] reference 2.16.2
To verify that the IUT ca provided in the backwar		all with an UUS2 explicit n	ion-essential request, i	f no indication is
NOTE: The network of access	or the user cannot support U	JUS2. SPB		
<alert alert ri connect</alert 	<acm nging tone >ANM ck communication <rel< td=""><td> UUS2 explicit : > UUS2 explicit : ></td><td>-</td><td></td></rel<></acm 	UUS2 explicit : > UUS2 explicit : >	-	
 Set up a call from UNI at SPB to SPA with user-to-user service 2 request. The Service 2 field in the UUInd is set to "request, not essential". Check the response "No information" in the ACM or in CPG. 				

TSS UUS/UUS2/	TP ISS_V_6_2_6	ISUP'97 reference 1.2.5.2.1.1.2; 1.2.5.2.2- 5.1/Q.737 [33]	Selection expression OLE OR IntermE	Q.788 [38] reference 2.16.1
Test purpose UUS2 explicit essential	- request n successfully originate/trans			est having the
user-to-user indicators indicators in the IAM se	s set to "request, essential" a et to "ISUP required".			
Pre-test conditions (in ca Arrange the data in the I	IUT so that the user has sub:	scribed to the UUS2 supp	lementary service.	
Case a)				
access	SPA	SPB		
setup		-> UUS2 explicit re	equest	
	<acm< td=""><td> UUS2 response</td><td></td><td></td></acm<>	UUS2 response		
	.nging tone >USR			
	<usr< td=""><td></td><td></td><td></td></usr<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	ck communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	->		
	from UNI at SPA to SPB with			
	rvice 2 field in the UUInd is s	set to "request, essential"	in the IAM.	
	-to-user information.			
	user information.			
Case b)				
SPC	SPA >IAM	SPB		
	<acm< td=""><td></td><td>luest</td><td></td></acm<>		luest	
	ging tone	- 0052 response		
	USR	>		
	<usr< td=""><td></td><td></td><td></td></usr<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
check	communication			
<rel< td=""><td> <rel< td=""><td>-</td><td></td><td></td></rel<></td></rel<>	<rel< td=""><td>-</td><td></td><td></td></rel<>	-		
RLC	>RLC	>		
	from UNI at SPC to SPB with			
	rvice 2 field in the UUInd is s	set to "request, essential"	in the IAM.	
	-to-user information.			
4. Send user-to-	user information.			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS2/	ISS_V_6_2_7	1.2.5.2.1.1.2; 1.2.5.2.2-	expression	reference
		5.1/Q.737 [33]	DLE OR IntermE	2.16.1
Test purpose				
UUS2 explicit essential	- acceptance			
To verify that the IUT ca	n successfully complete a	call having an UUS2 explic	it essential request hav	ring the user-to-
user indicators parame	eter in the ACM or CPG set	to "service provided".		
Pre-test conditions (in ca				
Arrange the data in the	IUT so that the user has su	bscribed to the UUS2 supp	lementary service.	
access	SPA	SPB		
		UUS2 explicit :		
alert		> UUS2 explicit :		
		> UUS2 explicit :	response)	
	nging tone			
	<usr< td=""><td></td><td></td><td></td></usr<>			
	>USR			
	>ANM	>		
	communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
		th user-to-user service 2 re	equest.	
	2 field in the UUInd is set to	• •		
3. Check the response "Service provided" in the ACM or CPG.				
	user information.			
Receive user	-to-user information.			

TSS UUS/NO_UUS2/	TP ISS_I_6_2_8	ISUP'97 reference 1.2.5.2.5.2.1; 1.2.5.2.2- 5.2/Q.737 [33]	Selection expression DLE OR IntermE	Q.788 [38] reference 2.16.4; 2.16.5
Test purpose UUS2 explicit essential	- <i>rejection</i> e can be rejected with a REL	with the Cause value 20	"facility rejected" or 6	9 "requested
	or value 88 "incompatible c			
Case a)				
access	SPA	SPB		
-	- <iam >REL <rlc< td=""><td>-></td><td>equest</td><td></td></rlc<></iam 	->	equest	
1. Set up a call f	rom UNI at SPB to SPA with	h user-to-user service 2 re	equest.	
2. The call shou	Id be released with cause #2	26, #69 or #88.		
CFN	- <iam< td=""><td>_</td><td>request</td><td></td></iam<>	_	request	
1. Set up a call f	> <rlc< td=""><td> h user-to-user service 2 re</td><td>equest.</td><td></td></rlc<>	 h user-to-user service 2 re	equest.	
2. The call shou	Id be released with cause #2	26, #69 or #88.		

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS2/	ISS_I_6_2_9	1.2 5.2.5.2.1; 1.2.5.2.2-	expression	reference
		5.2/Q.737 [33]	OLE or Interm	None
Test purpose				
UUS2 explicit essential	- implicit rejection			
To verify that the service	e can be rejected if no indica	tion is received (no user-t	o-user indicators par	ameter) in the
first backward message	(implicit rejection of service	2).		
NOTE: The remote n	etwork does not understand	the service 2 request or the	he remote user cannot	support UUS2.
Pre-test conditions (in ca	ase of OLE)			
Arrange the data in the	IUT so that the user has sub	scribed to the UUS2 supp	lementary service.	
Case a)				
access	SPA S	SPB		
setup	>IAM:	> UUS2 explicit red	quest	
	<acm< td=""><td></td><td></td><td></td></acm<>			
<disc< td=""><td>REL</td><td></td><td></td><td></td></disc<>	REL			
	<rlc< td=""><td>-</td><td></td><td></td></rlc<>	-		
-		-		
	from UNI at SPA to SPB with			
	rvice 2 field in the UUInd is		in the IAM.	
	because there is no UUInd	in the ACM.		
Case b)				
SPC		SPB		
IAM	>IAM:	-	quest	
	<acm< td=""><td></td><td></td><td></td></acm<>			
	REL:			
KTC	<pre>> <rlc< pre=""></rlc<></pre>	-		
1. Set up a call t	from SPC to SPA with user-	to-user service 2 request		
··· ••••••••••••••••••••••••••••••••••	rvice 2 field in the UUInd is		in the IAM	
	because there is no UUInd	• •		
J. Call Teleaseu				

TSS UUS/UUS2/	TP ISS_V_6_2_10	ISUP'97 reference 1.2.5.2.1.1.2/Q.737 [33]	Selection expression OLE	Q.788 [38] reference None
To verify that the IUT dis messages are received Pre-test conditions Arrange the data in the access alert r user info <user info<br=""><user info<br=""><user info<br=""><user info<br=""><user info<br=""><user info<br=""><user info<br=""><user info<br=""><user info<="" td=""><td>r information if more than two scards the user-to-user ser during the call set up (in eac UT so that the user has sub SPA </td><td>vice information in the ac ch direction). scribed to the UUS2 supp SPB > UUS2 explicit re > UUS2 response > </td><td>dditional message if mo</td><td>ore than two</td></user></user></user></user></user></user></user></user></user>	r information if more than two scards the user-to-user ser during the call set up (in eac UT so that the user has sub SPA 	vice information in the ac ch direction). scribed to the UUS2 supp SPB > UUS2 explicit re > UUS2 response > 	dditional message if mo	ore than two
2.Check the Se3.Check the red	from UNI at SPA to SPB with rvice 2 field in the UUInd is ceipt of two USR during call user information.	set to "request, not essent		

TSS UUS/UUS2/	TP ISS_I_6_2_11	ISUP'97 reference 1.2.5.2.1.1.2/Q.737 [33]	Selection expression	Q.788 [38] reference
			OLE	None
Test purpose				
Pass on one of the USR	received just after ANM			
To verify that the IUT ca	n successfully pass on one	e of the USR messages rece	eived just after the ans	swer state has
been reached.				
Pre-test conditions				
Arrange the data in the	UT so that the user has su	bscribed to the UUS2 supp	lementary service.	
access	SPA	SPB		
setup	->IAM	> UUS2 explicit req	quest	
<alert< td=""><td> <acm< td=""><td> UUS2 response</td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td> UUS2 response</td><td></td><td></td></acm<>	UUS2 response		
	ringing tone			
	->USR			
	<usr< td=""><td></td><td></td><td></td></usr<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	->USR	>		
	k communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
		ith user-to-user service 2 re	•	
		s set to "request, not essent	ial" in the IAM.	
	ser-to-user information duri	ng call set up.		
	user information.			
Check one us	ser-to-user information after	r ANM.		

UUS/	TSS /NO_UUS2/	TP ISS_I_6_2_12	ISUP'97 reference 1.2.5.2.2.2 Table 1-2; 1.2.7/Q.737 [33]	Selection expression Gateway AND PICS A.9/5	Q.788 [38] reference 2.16.3
Test purp					
,	ejection in Gate	explicit non-essential servic	e can be rejected and the	user-to-user indicato	rs in the ACM
		ce 2 not provided".	e can be rejected and the		
NOTE:		ser service is rejected beca	use the IntermE received	a CFN from the succee	ding network
SPC		SPA SPB			
<	IAM	< U	US2 explicit reques	t	
	CFN>	> U	US2 explicit respon	se	
		nging tone			
		>ANM>			
		communication			
	REL	<rel< td=""><td></td><td></td><td></td></rel<>			
		>RLC>			
1.	Set up a call	from UNI at SPB to SPA wit	h user-to-user service 2 re	equest.	
2.	The Service 2	2 field in the UUInd is set to	"request, not essential".		
3.	Check the res	sponse "Service not provide	d" in the ACM or CON		

TSS UUS/UUS2/	TP	ISUP'97 reference	Selection	Q.788 [38] reference					
003/0032/	ISS_I_6_2_13	1.2.2.1/Q.737 [33]	expression DLE AND PICS A.9/7						
Test purpose									
Deliver user-to-user information in USR after ANM									
To verify that the IUT can successfully deliver the user-to-user information in the USR message to the called user									
	after the answer state has been reached.								
Pre-test conditions									
Arrange the data in the IUT so that the user has subscribed to the UUS2 supplementary service.									
access	SPA	SPB	-						
<setup< td=""><td> <iam< td=""><td> UUS2 explicit</td><td>request</td><td></td></iam<></td></setup<>	<iam< td=""><td> UUS2 explicit</td><td>request</td><td></td></iam<>	UUS2 explicit	request						
alert	>ACM	> UUS2 explicit	response						
r	ringing tone								
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>								
	>USR								
	>ANM								
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>								
check communication									
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>								
	RLC	>							
1. Set up a call from UNI at SPB to SPA with user-to-user service 2 request.									
The Service 2 field in the UUInd is set to "request, not essential".									
3. Check the response "Service provided" in the ACM.									
4. Send user-to-user information.									
5. Receive user-to-user information.									
Send one use	er-to-user information after A	NM.							

TSS UUS/UUS2/	TP ISS_V_6_2_14	ISUP'97 reference 1.2.6.13.1; 1.2.6.13.3/Q.737 [33]	Selection expression Local AND (PICS A.9/4 OR PICS A.9/8)	Q.788 [38] reference None			
Test purpose UUS2 interaction with UUS1 (or UUS3) - unsuccessful request To verify that the services can be rejected with a REL with Cause value #29 "facility rejected" or #69 "requested facility not implemented", either with diagnostics (user-to-user indicators name), if more services are requested, one of them is essential and it cannot be provided. Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services.							
Case a) access SPA SPB <setup(uuinf) 2,="" 3="" <iam(uuinf)="" explicit="" request<br="" uus1,="">disc> <rel></rel></setup(uuinf)>							
 Set up a call UNI at SPB to SPA with user-to-user information and user-to-user service 2, 3 request. The call should be released with cause #29 or #69, because the service 2 cannot be provided. 							
1,	SPA >IAM(UUInf)- <rel RLC</rel 		plicit request				
	UNI at SPA to SPB with user Id be released with cause #2						
TSS	TP	ISUP'97 reference	Selection	Q.788 [38]			
--	--	---	--	-------------------	--		
UUS/UUS2/	ISS_V_6_2_15	1.2.6.13.1; 1.2.6.13.3/Q.737 [33]	expression Local AND (PICS A.9/4 OR PICS A.9/8)	reference None			
Test purpose UUS2 interaction with UUS1 (or UUS3) - independent acceptance or rejection of the services To verify that the IUT can successfully complete a call with an UUS2 explicit non-essential request, having the user-to-user indicators parameter set to "service provided" in the ACM or CPG. At the same time the UUS1 (or UUS3) service can be rejected and the user-to-user indicators in the ACM, CPG, ANM, CON or REL are set to "service 1 (or 3) not provided". Pre-test conditions Arrange the data in the IUT so that the user has subscribed to the UUS1 and UUS2 (or UUS3) supplementary services. Case a) access SPA setup(UUInf)> IAM(UUInf)> user info> USR							
2. Check that th	rom UNI at SPA to SPB with e Service 1, 2, 3 fields in UU e user-to-user information (su	Ind are set each to "requ		ce 2, 3 request.			
Case b) access <setup(uuinf) alert(UUInf) <user info<br="">connect(UUInf) che</user></setup(uuinf) 	SPA <iam(uuinf) ringing tone >USR USR >USR >ANM(UUInf) ck communication REL(UUInf) RLC</iam(uuinf) 	SPB UUS1, 2, 3 e > UUS1, 2 expl > > > UUS 3 explic	icit response				
2.The Service 13.Send/Received	rom UNI at SPB to SPA with , 2, 3 fields in UUInd are set a user-to-user information (su st case by setting the respor	each to "request, not es upport of Service 2).	sential".				

TSS UUS/UUS2/	TP ISS_V_6_2_16	ISUP'97 reference 1.2.6.13.3; 1.2.6.13.1/Q.737 [33]	Selection expression Local AND PICS A.9/8	Q.788 [38] reference None
To verify that the IUT ca set up. The Service 2 fie Pre-test conditions Arrange the data in the Case a) access alert ring user info- <user info-<br=""><connect check communic facility-req- <facility-ind user info- <user info-<="" td=""><td>US3 requested after call set n successfully originate/com eld of the user-to-user indica IUT so that the user has subs SPA <acm ring tone <usr vation FAR <far <far <</far </far </usr </acm </td><td>plete a call with UUS2 ar ators in the FAR, FAA of scribed to the UUS2 and SPB > UUS2 explicit re - UUS2 explicit re </td><td>r FRJ is then set to "no <u>UUS3 supplementary s</u> quest</td><td>information".</td></user></facility-ind </connect </user>	US3 requested after call set n successfully originate/com eld of the user-to-user indica IUT so that the user has subs SPA <acm ring tone <usr vation FAR <far <far <</far </far </usr </acm 	plete a call with UUS2 ar ators in the FAR, FAA of scribed to the UUS2 and SPB > UUS2 explicit re - UUS2 explicit re 	r FRJ is then set to "no <u>UUS3 supplementary s</u> quest	information".
2. Check that th 3. Send/Receive 4. Check reques 5. Send/Receive Case b) access		a user-to-user service 2 re s set to "request, not esse upport of service 2). upport of service 3)	ential".	
alert ring <user info<br="">connect check <facility-req facility-ind <user info<="" td=""><td><pre><iam tone="" ying="">USR>>USR> c communication>FAR></iam></pre></td><td>UUS2 explicit res</td><td></td><td></td></user></facility-req </user>	<pre><iam tone="" ying="">USR>>USR> c communication>FAR></iam></pre>	UUS2 explicit res		
 The Service 2 Send/Receive The service 3 Check service 	from UNI at SPB to SPA with 2 fields in UUInd is set to "rec e user-to-user information (su is requested in FAR. e 3 is provided in FAA. e user-to-user information (su	quest, not essential". upport of service 2).	equest.	

6.2.6.3 User-to-user signalling service 3 (UUS3)

TSS UUS/UUS3/	TP ISS_V_6_3_1	ISUP'97 reference 1.3.2.1/Q.737 [33]	Selection expression OLE AND PICS A.9/1	Q.788 [38] reference None
Test purpose	formation			
32 octets user-to-user in		I having 22 actate of upon t	to woon information in	
,	n successfully initiate a cal	I having 32 octets of user-	to-user information in	each message.
Pre-test conditions				
		bscribed to the UUS3 supp	plementary service.	
access	SPA	SPB		
		> UUS3 explicit re	quest	
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
ri	nging tone			
<connect< td=""><td> <anm< td=""><td> UUS3 response</td><td></td><td></td></anm<></td></connect<>	<anm< td=""><td> UUS3 response</td><td></td><td></td></anm<>	UUS3 response		
che	ck communication			
user info	->USR	>		
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. Set up a call f	rom UNI at SPA to SPB wi	th user-to-user service 3 re	equest.	
	e user-to-user information		•	

TSS UUS/UUS3/	TP ISS_V_6_3_2	ISUP'97 reference 1.3.2.1/Q.737 [33]	Selection expression OLE	Q.788 [38] reference None
Pre-test conditions	n reject an UUS3 reques	st after call set up, if it has be		set up.
access	SPA	subscribed to the UUS3 support SPB	Diementary Service.	
setup		> UUS3 explicit r	request	
	ringing tone			
	<anm ck communication .</anm 	UUS3 response		
facility-req-	>FAR	>		
<facility-rejec< td=""><td>t <frj< td=""><td></td><td></td><td></td></frj<></td></facility-rejec<>	t <frj< td=""><td></td><td></td><td></td></frj<>			
che	ck communication .			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. Set up a call f	rom UNI at SPA to SPB	with user-to-user service 3 r	equest.	

TSS UUS/UUS3/	TP ISS_V_6_3_3	ISUP'97 reference 1.3.5.2.1.1.2; 1.3.5.2.2- 5.1/Q.737 [33]	Selection expression OLE OR IntermE	Q.788 [38] reference 2.17.1
Test purpose		5.1/0./5/[55]	OLE OK IIIterine	2.17.1
UUS3 explicit non-esser	ntial - request			
	n successfully originate/trar	sit a call with an ULIS3 ex	plicit non-essential red	uest having the
	n the IAM set to "request, no			acot, naving an
Pre-test conditions (in ca	•			
`	IUT so that the user has sub	oscribed to the UUS3 supp	lementary service.	
Case a)			,	
access	SPA	SPB		
setup	>IAM	> UUS3 explicit	t request	
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
	jing tone			
	<anm< td=""><td> UUS3 response</td><td>e</td><td></td></anm<>	UUS3 response	e	
	communication			
	>USR			
	<usr< td=""><td></td><td></td><td></td></usr<>			
<disc< td=""><td>REL</td><td></td><td></td><td></td></disc<>	REL			
	RLC	>		
1. Set up a call	from UNI at SPA to SPB wit	h user-to-user service 3 re	auest	
Case b)			,quoot.	
SPC	SPA	SPB		
IAM	>IAM	> UUS3 explicit :	request	
<acm< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td></td><td></td><td></td></acm<>			
	ringing tone			
<anm< td=""><td> <anm< td=""><td> UUS3 response</td><td></td><td></td></anm<></td></anm<>	<anm< td=""><td> UUS3 response</td><td></td><td></td></anm<>	UUS3 response		
	heck communication .			
	>USR			
	<usr< td=""><td></td><td></td><td></td></usr<>			
	<rel< td=""><td></td><td></td><td></td></rel<>			
RLC	>RLC	>		
4 Oatum				
1. Set up a call	from UNI at SPC to SPB wit	in user-to-user service 3 re	equest.	

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS3/	ISS_V_6_3_4	1.3.5.2.1.1.2; 1.3.5.2.2-	expression	reference
		5.1/Q.737 [33]	DLE OR IntermE	2.17.1
Fest purpose				
UUS3 explicit non-esser	,			
	n successfully complete a c			
Service 3 field in the use	er-to-user indicators paran	neter in the ANM or CON	set to "service provideo	d".
Pre-test conditions (in ca	,			
Arrange the data in the I	UT so that the user has sub	scribed to the UUS3 supp	lementary service.	
access	SPA	SPB		
	<iam< td=""><td></td><td>request</td><td></td></iam<>		request	
alert	>ACM	>		
	ringing tone			
connect	>ANM	> UUS3 response		
	ck communication			
	<usr< td=""><td></td><td></td><td></td></usr<>			
	>USR	>		
	ck communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
<setup< td=""><td> <iam< td=""><td> UUS3 explicit</td><td>request</td><td></td></iam<></td></setup<>	<iam< td=""><td> UUS3 explicit</td><td>request</td><td></td></iam<>	UUS3 explicit	request	
connect	>CON	> UUS3 response		
	check communication			
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
user info	>USR	>		
	check communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
. Set up a call f	rom UNI at SPB to SPA wit	h user-to-user service 3 re	equest.	

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TSS UUS/NO_UUS3/	TP ISS_I_6_3_5	1.3.	7 reference 5.2.5.2.3; 5.2/Q.737 [33	Selection expression JDLE OR IntermE	Q.788 [38] reference 2.17.2
To verify that the IUT ca provided in the backware	ntial - implicit rejection (no in n successfully complete a c d direction. or the user cannot support U SPA	all with an	UUS3 explicit	non-essential request,	if no indication is
alert r connect chec	<iam inging tone >ANM k communication <rel RLC</rel </iam 	> > UUS3 	-	-	
connect chec <disc< td=""><td> <iam >CON k communication <rel RLC</rel </iam </td><td>> UUS3 ></td><td>response</td><td>(no indication)</td><td></td></disc<>	<iam >CON k communication <rel RLC</rel </iam 	> UUS3 >	response	(no indication)	
Case b) SPC	rom UNI at SPB to SPA wit	SPB			
ACM	<iam >ACM ringing tone</iam 	>			
chec <rel< td=""><td>>ANM k communication <rel >RLC</rel </td><td></td><td>response</td><td>(no indication)</td><td></td></rel<>	>ANM k communication <rel >RLC</rel 		response	(no indication)	
CON check <rel< td=""><td> <iam >CON communication <rel >RLC</rel </iam </td><td>> UUS3</td><td></td><td></td><td></td></rel<>	<iam >CON communication <rel >RLC</rel </iam 	> UUS3			
1. Set up a call f	rom UNI at SPB to SPA wit	h user-to-u	ser service 3	request.	

Test purpose JUS3 explicit non-essential - explicit rejection (service not provided) To verify that the UUS3 service can be rejected and the Service 3 field in the user-to-user indicators in the ANM of CON are set to "service 3 not provided". NOTE: The network or the called user cannot support UUS3. Case a) access access SPA set to "service 3 not provided". VOTE: The network or the called user cannot support UUS3. Case a) access set to "service 3 not provided". vaccess SPA set to "service 3 not provided". user set to "service 3 not provided". vaccess SPA set to "service 3 not provided". user set to "service 3 not provid	TSS UUS/NO_UUS3/	TP ISS_I_6_3_6	ISUP'97 reference 1.3.5.2.5.2.2; 1.3.5.2.2- 5.2/Q.737 [33]	Selection expression DLE OR IntermE	Q.788 [38] reference 2.17.3
	To verify that the UUS3 CON are set to "service NOTE: The network of Case a) access <setup r connect chec</setup 	service can be rejected and <u>3 not provided".</u> or the called user cannot su SPA >ACM inging tone > ANM k communication	vice not provided) d the Service 3 field in the upport UUS3. SPB UUS3 explicit r >	request	
Case b) SPC SPA SPB <iam< td=""> <acm> UUS3 explicit request ACM> ACM> UUS3 response (serv. not provided) check communication <rel< td=""> <rlc> RLC> <con> UUS3 explicit request RLC> RLC> <rlc> UUS3 response (serv. not provided) check communication <</rlc></con></rlc></rel<></acm></iam<>	<setup connect chec <disc< td=""><td>RLC <iam >CON k communication <rel RLC</rel </iam </td><td>> UUS3 explicit r > UUS3 response (</td><td>serv. not provide</td><td>ed)</td></disc<></setup 	RLC <iam >CON k communication <rel RLC</rel </iam 	> UUS3 explicit r > UUS3 response (serv. not provide	ed)
<rel <rel<="" td=""><td>Zase b) SPC IAM ACM </td><td>SPA <iam ringing tone >ANM</iam </td><td>SPB UUS3 explicit r ></td><td>request</td><td>ed)</td></rel>	Zase b) SPC IAM ACM 	SPA <iam ringing tone >ANM</iam 	SPB UUS3 explicit r >	request	ed)
	<rel IAM CON check <rel< td=""><td> <rel >RLC >CON communication <rel< td=""><td>> UUS3 explicit r > UUS3 response (</td><td></td><td>ed)</td></rel<></rel </td></rel<></rel 	<rel >RLC >CON communication <rel< td=""><td>> UUS3 explicit r > UUS3 response (</td><td></td><td>ed)</td></rel<></rel 	> UUS3 explicit r > UUS3 response (ed)

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS3/	ISS_V_6_3_7	1.3.5.2.1.1.2; 1.3.5.2.2-	expression	reference
		5.1/Q.737 [33]	OLE OR IntermE	2.17.1
Fest purpose				
UUS3 explicit essential -				
		ansit a call with an UUS3 ex		
		essential" and the ISDN use	r part preference indic	ator in the
	set to "ISUP required all t	the way".		
Pre-test conditions (in ca				
Arrange the data in the I	UT so that the user has s	ubscribed to the UUS3 supp	lementary service.	
Case a)				
access	SPA	SPB		
setup	>IAM	> UUS3 explicit red	quest	
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
rin	ging tone			
<connect< td=""><td> <anm< td=""><td> UUS3 response</td><td></td><td></td></anm<></td></connect<>	<anm< td=""><td> UUS3 response</td><td></td><td></td></anm<>	UUS3 response		
chec	k communication			
user info	>USR	>		
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. Set up a call f	rom UNI at SPA to SPB w	vith user-to-user service 3 re	quest.	
	user-to-user information.			
Case b)				
SPC	SPA	SPB		
IAM	>IAM	> UUS3 explicit re	equest	
	<acm< td=""><td>±</td><td>1</td><td></td></acm<>	±	1	
	ing tone	copp ropponde		
	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
	>	>		
	<usr< td=""><td></td><td></td><td></td></usr<>			
	<rel< td=""><td></td><td></td><td></td></rel<>			
	<rel >RLC</rel 			
крс	>кцС	>		
4 0 :		141 () -		
	rom UNI at SPA to SPB v user-to-user information.	vith user-to-user service 3 re	quest.	

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS3/	ISS_V_6_3_8	1.3.5.2.1.1.2; 1.3.5.2.2-	expression	reference
		5.1/Q.737 [33]	DLE OR IntermE	2.17.1
Test purpose		· · · · · · · · · · · · · · · · · · ·		
UUS3 explicit essential	- acceptance			
To verify that the IUT ca	n successfully complete a c	all with an UUS3 explicit e	ssential request having	g in the ANM or
CON the Service 3 field	of the user-to-user indicat	ors parameter set to "serv	rice provided".	
Pre-test conditions (in ca	ase of DLE)			
Arrange the data in the I	UT so that the user has sub	scribed to the UUS3 supp	lementary service.	
access	SPA	SPB		
	<iam< td=""><td></td><td>equest</td><td></td></iam<>		equest	
alert	>ACM	>		
	inging tone			
connect	>ANM	> UUS3 response		
che	ck communication			
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
user info	>USR	>		
	ck communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
<setup< td=""><td> <iam< td=""><td> UUS3 explicit re</td><td>equest</td><td></td></iam<></td></setup<>	<iam< td=""><td> UUS3 explicit re</td><td>equest</td><td></td></iam<>	UUS3 explicit re	equest	
connect	>CON	> UUS3 response		
chec	k communication			
<user info<="" td=""><td> <usr< td=""><td></td><td></td><td></td></usr<></td></user>	<usr< td=""><td></td><td></td><td></td></usr<>			
user info	>USR	>		
chec	k communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. Set up a call f	from UNI at SPB to SPA wit	<u>h user-to-user service 3 re</u>	quest.	

TSS UUS/NO UUS3/	TP ISS I 6 3 9	ISUP'97 reference 1.3.5.2.5.2.2; 1.3.5.2.2-	Selection expression	Q.788 [38] reference
		5.2/Q.737 [33]	DLE OR IntermE	2.17.4
Test purpose				
UUS3 explicit essential	, ,			
-	e can be rejected with a RE			#69 "requested
facility not implemented	', either with diagnostics (us	ser-to-user indicators nar	me).	
NOTE: The network	or the called user cannot su	poort the service.		
Case a)				
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td> UUS3 explicit re</td><td>quest</td><td></td></iam<></td></setup<>	<iam< td=""><td> UUS3 explicit re</td><td>quest</td><td></td></iam<>	UUS3 explicit re	quest	
disc	>REL	>		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
1. Set up a call	UNI at SPB to SPA with use	ar-to-user service 3 reques	+	
	Id be released with cause #		·t.	
Case b)		23 01 #03.		
SPC	SPA	SPB		
<iam< td=""><td>- <iam< td=""><td> UUS3 explicit re</td><td>quest</td><td></td></iam<></td></iam<>	- <iam< td=""><td> UUS3 explicit re</td><td>quest</td><td></td></iam<>	UUS3 explicit re	quest	
	CFN	->		
	REL			
RLC	> <rlc< td=""><td></td><td></td><td></td></rlc<>			
1. Set up a call	UNI at SPB to SPC with use	er-to-user service 3 reques	st.	
2. The call shou	Id be released with cause #	² 29 or #69.		

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS3/	ISS V 6 3 10	1.3.5.2.1.1.2; 1.3.5.2.2-	expression	reference
		5.1/Q.737 [33]	OLE OR IntermE	2.17.6
Test purpose				
	ntial - request during the act	ive phase of the call		
	n successfully generate/trar		essential request, with	a FAR having
	rameter set to "user-to-user			
set to "request, not esse				
Pre-test conditions (in ca				
	IUT so that the user has sub	scribed to the UUS3 supp	lementary service.	
Case a)			,	
access	SPA	SPB		
setup	>IAM	>		
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
ring	ing tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	communication			
	FAR		quest	
1 5	<frj< td=""><td> UUS3 response</td><td></td><td></td></frj<>	UUS3 response		
	communication			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	->		
1. Service 3 reg	uest during the active phase	2		
Case b)	dest during the active phase	5.		
SPC	SPA SP	В		
	IAM>			
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
rin	ging tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
check	communication			
FAR>	•FAR>	UUS3 explicit reques	st	
<frj< td=""><td><frj< td=""><td>UUS3 response</td><td></td><td></td></frj<></td></frj<>	<frj< td=""><td>UUS3 response</td><td></td><td></td></frj<>	UUS3 response		
	communication			
	<rel< td=""><td></td><td></td><td></td></rel<>			
RLC>	RLC>			
·				
1. Service 3 req	uest during the active phase	Э.		

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
UUS/UUS3/	ISS_V_6_3_11	1.3.5.2.1.1.2; 1.3.5.2.2-	expression	reference
		5.1/Q.737 [33]	DLE OR IntermE	2.17.5
Test purpose				
UUS3 explicit non-esser	ntial - acceptance during cal	1		
To verify that the IUT ca	n successfully reply to an U	US3 explicit non-essential	request with a FAA ha	aving the
facility indicator param	eter set to "user-to-user ser	vice" and the Service 3 fie	eld in the user-to-user	indicators
parameter set to "service				
Pre-test conditions (in ca				
Arrange the data in the I	UT so that the user has sub	scribed to the UUS3 supp	lementary service.	
access		PB		
	<iam< td=""><td></td><td></td><td></td></iam<>			
	->ACM>			
	ging tone			
	->ANM>			
	mmunication			
	<far< td=""><td>-</td><td></td><td></td></far<>	-		
	->FAA>	UUS3 response		
	<usr< td=""><td></td><td></td><td></td></usr<>			
	->USR>			
<disc< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disc<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC>			
	is requested in FAR.			
	e 3 is provided in FAA.			
3. Send/Receive	e user-to-user information (s	upport of service 3).		

TSS UUS/UUS3/		TP ISS_I_6_3_12		ISUP'97 ret table 1-3/Q.		Selection expression Gateway AND PICS A.9/5	Q.788 [38] reference 2.17.3
To verify that the L indicators in the A	JUS3 exp ACM or C	ON are set to "serv	ervice o ice 3 no	an be rejecte ot provided".		Service 3 field in the u e.g. a CFN from the s	
	(note 2 tag)	•	Decaus		ay received		ucceeding
SPC	SPA	, SI	РВ				
<iam< td=""><td></td><td>IAM</td><td>UUS3</td><td>explicit</td><td>request</td><td></td><td></td></iam<>		IAM	UUS3	explicit	request		
1 ANM che <rel< td=""><td>ringing > eck comm <-</td><td>tone ACM> munication REL></td><td>UUS3</td><td>explicit</td><td>respons</td><td>e (serv.not provi</td><td>ded)</td></rel<>	ringing > eck comm <-	tone ACM> munication REL>	UUS3	explicit	respons	e (serv.not provi	ded)
<iam< td=""><td></td><td>IAM</td><td>UUS3</td><td>explicit</td><td>request</td><td></td><td></td></iam<>		IAM	UUS3	explicit	request		
che	eck comm <-	CON> munication REL>	UUS3	explicit	respons	e (serv.not provi	ded)
2. The Sei	rvice 3 fie	NUNI at SPB to SP Id in the UUInd is so the "Service not pro	et to "re	quest, not es	ssential".	equest.	

TSS TP **ISUP'97** reference Selection Q.788 [38] UUS/UUS3/ ISS_I_6_3_13 1.3.5.2.5.2.2/Q.737 [33] expression reference IntermE None Test purpose UUS3 explicit non-essential - implicit rejection during call (no indication - discard FAA or FRJ) To verify that the IUT can successfully complete a call with an UUS3 request in the FAR, if the FAA or FRJ are discarded. NOTE: The FAA or FRJ are discarded e.g. because the FAR contains unrecognized or inconsistent information. SPC SPA SPB -----IAM-----> -----IAM-----> <-----ACM------ <-----ACM------... ringing tone ... <-----ANM------ <-----ANM------... check communication ... <-----FAR------ UUS3 explicit request (no FAA or FRJ) ... check communication ... <-----REL------ <-----REL-------------RLC-----> ------RLC-----> Service 3 request during the active phase. 1

TSS UUS/UUS3/	TP ISS_I_6_3_14	ISUP'97 reference 1.3.5.2.5.2.2/Q.737 [33]	Selection expression IntermE	Q.788 [38] reference None
To verify that the UUS3	ntial - explicit rejection durin explicit non-essential servic er-to-user indicators in the	ce can be rejected during the	ne active phase of the	call and the
IAM> <acm ring <anm< td=""><td>SPA S IAM> - <acm jing tone - <anm communication</anm </acm </td><td>3PB</td><td></td><td></td></anm<></acm 	SPA S IAM> - <acm jing tone - <anm communication</anm </acm 	3PB		
FRJ> check <rel< td=""><td><pre>FARFRJ> communication <relrlc></relrlc></pre></td><td></td><td></td><td></td></rel<>	<pre>FARFRJ> communication <relrlc></relrlc></pre>			
1. Service 3 req	uest during the active phas	е.		

TSS UUS/UUS3/	TP ISS_V_6_3_15	ISUP'97 reference 1.3.6.13.1; 1.3.6.13.2/Q.737 [33]	Selection expression Local AND (PICS A.9/4 OR PICS A.9/6)	Q.788 [38] reference None
To verify that the service "requested facility not im requested one of them e Pre-test conditions	plemented ["] , either with di ssential which cannot be	REL having the Cause valu agnostics (user-to-user in	dicators name), if more	services are

TSS UUS/UUS3/	TP ISS_V_6_3_16	ISUP'97 reference 1.3.6.13.1; 1.3.6.13.2/Q.737 [33]	Selection expression Local AND (PICS A.9/4 OR PICS A.9/6)	Q.788 [38] reference None
To verify that the IUT ca Service 3 field in the use the UUS1 (or UUS2) ser REL are set to "service" Pre-test conditions	UT so that the user has sul	call with an UUS3 explicit meter set to "service provi ne user-to-user indicator	non-essential request, h ded" in ANM or CON . A s in the ACM , CPG , AN	t the same time M , CON or

TSS UUS/UUS3/	TP ISS_V_6_3_17	ISUP'97 reference 1.3.6.18/Q.737 [33]	Selection expression OLE	Q.788 [38] reference None
To verify that if the FAR i user-to-user indicators Pre-test conditions	P - FAR sent while call is su is received while a call is su set to "Service 3 not provid JT so that the user has sub	, spended, the IUT returns ed".		
access	SPA SI		TT Supplementary serv	1063.
<u>-</u>	->IAM>			
	-> <acm< td=""><td></td><td></td><td></td></acm<>			
	inging tone			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	k communication			
<tp-suspend< td=""><td> <sus< td=""><td>THIG2 and isit was</td><td></td><td></td></sus<></td></tp-suspend<>	<sus< td=""><td>THIG2 and isit was</td><td></td><td></td></sus<>	THIG2 and isit was		
		UUS3 explicit req UUS3 response (se		
checl	k communication	ouss response (se	rv. not provided)	
	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC>			
	rom UNI at SPA to SPB whi			

6.2.7 Closed user group (CUG)

-	'SS UG/	TP ISS_V_7_1	ISUP'97 reference 1.5.2.1.1 i) a)/Q.735 [30]	Selection expression OLE	Q.788 [38] reference 2.4.4; 2.4.5
To verify the indication of preference Pre-test co Arrange the	out outgoing a pat the IUT ca of "CUG call, indicator of t nditions	outgoing access not allowe he forward call indicators	CUG call by including the C ed" in the optional forward s in the IAM should be set to arty subscribes to the CUG	call indicators in the o "ISUP required all the	IAM. The ISUP e way".
access		SPA	SPB		
	-	>IAM (CUG) oing access not allo			
(011)					

TSS CUG/	TP ISS_V_7_2	ISUP'97 reference 1.5.2.2.1; 1.5.2.3.1; 1.5.2.4.1/Q.735 [30]	Selection expression IntermE	Q.788 [38] reference 2.4.4; 2.4.5
Test purpose				
Transfer of information r	elated to CUG			
		information related to a CUG		
together with an indication	on of "CUG call, outgoing	access not allowed" in the op	tional forward call	indicators in the
IAM.				
SPC	SPA	SPB		
	->IAM (CUG)-			
IAM (CUG)	2 1111 (000)	> (-UA)		
	G call set up from SPC sp	ecifying a CUG interlock code	. The CUG call is wi	th outgoing

	TSS CUG/	TP ISS_V_7_3	ISUP'97 reference 1.5.2.3.1; 1.5.2.4.1/Q.735 [30]	Selection expression Gateway AND PICS A.10/3	Q.788 [38] reference None
Test pu	Jrpose				
Conver	rsion of the interlo	ock code			
To verif	fy that the IUT ca	in successfully convert a nati	onal into an international	CUG interlock code (or vice versa)
and tha	at the indication "(CUG call, outgoing access n	ot allowed" in the optiona	I forward call indicate	ors in the IAM
is pass	ed on transparen	tly.	-		
SPC		SPA	SPB		
;	IAM (CUG)	->IAM (CUG)>	> (-OA)		
1.	Initiate a CUC	G call set up from SPC speci	fying a CUG interlock cod	e. The CUG call is with	n outgoing
	access not al	· · ·	, ,		0 0
2.	CUG call indi	cator set to "CUG call, outgo	ing access not allowed" a	and international CUGI	C for OutIE.
3.		cator set to "CUG call, outgo			

TSS NO_CUG/	TP ISS_I_7_4	ISUP'97 reference 1.5.2.4.2/Q.735 [30] , table 1-1/Q.735 [30]	Selection expression IncIE AND NOT PICS A.3/7 AND PICS A.8/2	Q.788 [38] reference 2.4.9		
Test purpose <i>CUG call without outgoing access, action at the gateway with network without CUG capability</i> To verify that the IUT rejects a CUG call if the contents of the CUG call indicator is set to "CUG call, outgoing access not allowed" in optional forward call indicators in IAM and the succeeding national network does not support CUG. The IUT should respond with a REL with cause #29 "Facility rejected" and include the parameter name in the diagnostics field. Pre-test conditions A route to a network without CUG capability must be available in the IUT.						
	SPA	SPB				
(IAM -OA) with outgoing ac <rel RLC</rel 	ccess not allowed				
access not al 2. Wait for some	G call set up from SPC specif lowed. e event, nothing should happ piry get the verdict.		le. The CUG call is with	n outgoing		

TSS NO_CUG/	TP ISS_I_7_5	ISUP'97 reference 1.5.2.4.2/Q.735 [30] , Table 1-1/Q.735 [30]	Selection expression IncIE AND NOT PICS A.3/7 AND PICS A.8/2	Q.788 [38] reference 2.4.3
To verify that the IUT pro	oceeds with normal call s	eway interworking with netwo etup if the contents of the CL rd call indicators in IAM and	JG call indicator is rece	eived as "CUG
A route to a network with	nout CUG capability must	t be available in the IUT.		
SPC	SPA	SPB		
IAM (CUG)	->IAM	>		
(+OA) with outgoin	g access allowed			
1. Initiate a CUC	G call set up from SPC sp	ecifying a CUG interlock cod	e. The CUG call is with	outgoing

TSS CUG/	TP ISS_V_7_6	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference 2.4.4
To verify that the IUT ca Pre-test conditions	ng access; class of called us n successfully establish a Cl IUT such that the called part	UG call.		parred
access		SPB 		
2. Send an IAM	call set up to the access. with ISUP preference indica e OFCI set to "CUG call, out			and CUG call

TSS CUG/	TP ISS_V_7_7	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference 2.4.1
To verify that the IUT ca Pre-test conditions	n successfully establish a	er: CUG without IA, no ICB ac CUG call. arty subscribes to CUG and n		barred.
access	SPA	SPB		
<setup< td=""><td> <iam (cug)<="" td=""><td></td><td></td><td></td></iam></td></setup<>	<iam (cug)<="" td=""><td></td><td></td><td></td></iam>			
	(+OA,-ICB) no i	ncoming calls barred		
2. Send an IAM	call set up to the access. with ISUP preference indi e OFCI set to "CUG call, o	cator in the FCI set to "ISUP	required all the way"	and CUG call

	TSS CUG/	TP ISS_V_7_8	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference 2.4.8	
To verify Pre-test	<i>I without outgoi</i> that the IUT rej conditions	ects the CUG call with c	d user: CUG without IA, ICB ad ause #55 "Incoming calls barre	ed within CUG" in the		
Arrange access		UI such that the called SPA	party subscribes to CUG and to SPB	he incoming calls are	e barred (ICB).	
		<iam (cug)<="" td=""><td></td><td></td><td></td></iam>				
		(-OA,+ICB) in	coming calls barred			
		REL(#55)-	>			
		<rlc< td=""><td></td><td></td><td></td></rlc<>				
1.	No call set up	should be observed on	the access side.			
2.	2. Send an IAM with ISUP preference indicator in the FCI set to "ISUP required all the way" and CUG call indicator in the OFCI set to "CUG call, outgoing access not allowed".					
3.	REL with cause #55 "Incoming calls barred within CUG". The location RLN - "public network serving the remote user" - can also be checked.					

	rss :UG/	TP ISS_V_7_9	ISUP'97 reference 1.5.2.5.1;	Selection expression	Q.788 [38] reference	
			Table 1-2/Q.735 [30]	DLE	None	
Test purpo						
	0 0	access; class of called user:				
To verify th	hat the IUT rej	ects the CUG call with caus	e #55 "Incoming calls barr	ed within CUG" in the	REL.	
Pre-test co	onditions					
Arrange th	e data in the l	UT such that the called part	y subscribes to CUG and	the incoming calls are	barred (ICB).	
access		SPA	SPB			
		<iam (cug)<="" td=""><td>-</td><td></td><td></td></iam>	-			
		(+OA,+ICB) incomi	ng calls barred			
		REL(#55)	>			
		<rlc< td=""><td>_</td><td></td><td></td></rlc<>	_			
1.	No call set up	should be observed on the	access side.			
	Send an IAM with ISUP preference indicator in the FCI set to "ISUP required all the way" and CUG call					
	indicator in the OFCI set to "CUG call, outgoing access allowed".					
3.	REL with cau	e OFCI set to "COG call, outgoing access allowed". se #55 "Incoming calls barred within CUG". The location RLN - "public network serving the - can also be checked.				

TSS CUG/	TP ISS_V_7_10	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference None			
Test purpose <i>CUG call without outgoing access; class of called user: CUG with IA and no ICB activated</i> To verify that the IUT can successfully establish a CUG call. Pre-test conditions Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming Access (IA) and no incoming calls are barred.							
access	SPA	SPB					
<setup< td=""><th> <iam (cug)<="" th=""><th></th><th></th><th></th></iam></th></setup<>	<iam (cug)<="" th=""><th></th><th></th><th></th></iam>						
(-OA ,	+IA,-ICB) incoming a	access allowed, no in	coming calls bar	rred			
1. Assist a CUG	call set up to the access.						
	Send an IAM with ISUP preference indicator in the FCI set to "ISUP required all the way" and CUG call indicator in the OFCI set to "CUG call, outgoing access not allowed".						

TSS CUG/	TP ISS_V_7_11	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference None
Test purpose				
CUG call with outgoing	access; class of called user	: CUG with IA and no ICB a	activated	
To verify that the IUT ca	n successfully establish a C	CUG call with outgoing acce	ess.	
Pre-test conditions				
Arrange the data in the	UT such that the called par	ty subscribes to the CUG v	vith Incoming Access	(IA) and no
incoming calls are barre	d.		-	
access	SPA	SPB		
<setup< td=""><th> <iam (cug)<="" th=""><th></th><th></th><th></th></iam></th></setup<>	<iam (cug)<="" th=""><th></th><th></th><th></th></iam>			
(+02	A,+IA,-ICB) incoming	access allowed, no i	incoming calls ba	arred
1. Assist a CUG	call set up to the access.			
	with ISUP preference indic e OFCI set to "CUG call, ou		required all the way"	and CUG call

TSS CUG/	TP ISS_V_7_	_12	ISUP'97 reference 1.5.2.5.1; able 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference None		
Test purpose <i>CUG call without outgoing access; class of called user: CUG with IA and ICB activated</i> To verify that the IUT rejects the CUG call with cause #55 "Incoming calls barred within CUG" in the REL . Pre-test conditions Arrange the data in the IUT such that the called party subscribes to the CUG with Incoming access (IA) and the incoming calls are barred (ICB).							
access	SPA <iam (<br="">(-OA,+IA,+ICB) i REL(‡ <ri< td=""><th>ncoming ac \$55)></th><th></th><th>coming calls barr</th><th>ed</th></ri<></iam>	ncoming ac \$55)>		coming calls barr	ed		
 No call set up should be observed on the access side. Send an IAM with ISUP preference indicator in the FCI set to "ISUP required all the way" and CUG call indicator in the OFCI set to "CUG call, outgoing access not allowed". REL with cause #55 "Incoming calls barred within CUG". The location RLN - "public network serving the remote user" - can also be checked. 							

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TSS CUG/	TP ISS_V_7_13	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference None
To verify that the IUT of Pre-test conditions	an successfully establis IUT such that the called	<i>user: CUG with IA and ICB activ</i> h a non-CUG call. d party subscribes to the CUG w		(IA) and the
access	SPA	SPB		
	<iam (cu0<="" td=""><td>G)</td><td></td><td></td></iam>	G)		
(+	OA,+IA,+ICB) incor	ming access allowed, inc	oming calls bar	red
	G call set up to the acce / with ISUP preference	ess. indicator in the FCI set to "ISUP	required all the way	' and CUG call

	rss :UG/	TP ISS_V_7_14	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference 2.4.5
To verify the Pre-test co	<i>without outgoii</i> hat the IUT rej		d user: non-CUG ause #87 "User not membe	r of CUG" in the REL .	
access		SPA <iam (cug)-<br="">REL(#87) <rlc< th=""><th>></th><th></th><th></th></rlc<></iam>	>		
1. 2. 3.	Send an IAM indicator in th REL with cau	e OFCI set to "CUG call	the access side. dicator in the FCI set to "ISI , outgoing access not allow er of CUG". The location RL	ed".	

TSS CUG/	TP ISS_V_7_15	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference 2.4.2
Test purpose				
CUG call with outgoing a	access; class of called us	er: non-CUG		
To verify that the IUT ca	n successfully establish a	non-CUG call		
Pre-test conditions	-			
Called user is not memb	er of CUG.			
access	SPA	SPB		
	<iam (cug)<="" td=""><td> (+OA)</td><td></td><td></td></iam>	(+OA)		
1				
1. Assist a CUG	call set up to the access.			
2 Sond on IAM	with ISLIP proference ind	icator in the ECI set to "ISLIP	required all the way	and CLIC call

 Send an IAM with ISUP preference indicator in the FCI set to "ISUP required all the way" and CUG call indicator in the OFCI set to "CUG call, outgoing access allowed".

	TSS :UG/	TP ISS_V_7_16	ISUP'97 reference 1.5.2.5.1;	Selection expression	Q.788 [38] reference	
			Table 1-2 /Q.735 [30]	DLE	None	
Test purpo						
	,	called user: CUG without IA				
To verify t	hat the IUT rej	ects the CUG call with cau	se # 87 " User not member	of CUG " in the REL .		
Pre-test co	onditions					
Arrange th	e data in the l	UT such that the called par	rty subscribes to CUG.			
access		SPA S	SPB			
		<iam< th=""><th></th><th></th><td></td></iam<>				
		(non-CUG,-IA) i	incoming access not a	allowed		
		REL(#87)	>			
		<rlc< th=""><th></th><th></th><td></td></rlc<>				
1.	No call set up	should be observed on the	e access side.			
2.	Send an IAM for a non-CUG call with ISUP preference indicator in the FCI set to "ISUP required all the					
	way".					
3.		se #87 "User not member o	of CUG". The location RLN	- "public network servi	ng the remote	
		so be checked.			0	

TSS CUG/	TP ISS_V_7_17	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference None			
Test purpose							
Non-CUG call; class of	called user: CUG with IA						
To verify that the IUT ca	in successfully establish a no	on-CUG call.					
Pre-test conditions							
Arrange the data in the	IUT such that the called party	y subscribes to CUG with I	ncoming Access (IA).				
access	SPA	SPB					
	<iam< th=""><td>-</td><td></td><td></td></iam<>	-					
	(non_CUG,+IA) ir	ncoming access allow	red				
1. Assist a Non	1. Assist a Non-CUG call set up to the access.						
	Send an IAM for a non-CUG call with ISUP preference indicator in the FCI set to "ISUP required all the						

	rss :UG/	TP ISS_V_7_18	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference None		
CUG call v To verify th Pre-test co	Test purpose <i>CUG call without outgoing access; class of called user: other CUG without IA</i> To verify that the IUT rejects the CUG call with cause #87 "User not member of CUG" in the REL . Pre-test conditions						
Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user. access SPA SPB <iam (cug)<="" td=""> (-OA,-IA) other CUG, incoming access not allowed REL(#87)> <rlc< td=""></rlc<></iam>							
2. 3.	Send an IAM indicator in th REL with cau	should be observed on the with ISUP preference indica e OFCI set to "CUG call, ou se #87 "User not member of so be checked.	ator in the FCI set to "ISUF tgoing access not allowed	".			

	rss :UG/	TP ISS_V_7_19	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference 2.4.6
Test purpose <i>CUG call with outgoing access; class of called user: other CUG without IA</i> To verify that the IUT rejects the CUG call with cause #87 "User not member of CUG" in the REL . Pre-test conditions Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user.					
Arrange th	e data in the	UT such that the called part	y subscribes to another C	UG than that of calling	user.
<iam (cug)<br="">(+OA,-IA) other CUG, incoming access not allowed REL(#87)> <rlc< td=""></rlc<></iam>					
1. 2. 3.	Send an IAM indicator in th REL with cau	should be observed on the with ISUP preference indica e OFCI set to "CUG call, ou se #87 "User not member of so be checked.	ator in the FCI set to "ISUF tgoing access allowed".		

TSS CUG/	TP ISS V 7 20	ISUP'97 reference 1.5.2.5.1;	Selection expression	Q.788 [38] reference
	100_1_1_20	Table 1-2/Q.735 [30]	DLE	None
To verify that the IUT r Pre-test conditions	bing access; class of called us ejects the CUG call with caus e IUT such that the called part	e #87 "User not member o		user, and that
access	SPA <iam (cug)<="" td=""><th>r CUG, incoming acc</th><td>ess allowed</td><th></th></iam>	r CUG, incoming acc	ess allowed	
 Send an IAI indicator in a REL with ca 	up should be observed on the <i>M</i> with ISUP preference indica the OFCI set to "CUG call, ou use #87 "User not member of also be checked.	ator in the FCI set to "ISUF tgoing access not allowed	l".	

TSS CUG/	TP ISS_V_7_21	ISUP'97 reference 1.5.2.5.1; Table 1-2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference 2.4.7		
Test purpose CUG call with outgoing access; class of called user: other CUG with IA To verify that the IUT can successfully establish a non-CUG call Pre-test conditions Arrange the data in the IUT such that the called party subscribes to another CUG than that of calling user, and that incoming access (IA) is allowed.						
access	SPA	SPB				
	<iam (cug)<="" td=""></iam>					
(+OA,+IA) other CUG, incoming access allowed						
2. Send an IAM	CUG call set up to the acc with ISUP preference indi a OFCI set to "CUG call, c	cator in the FCI set to "ISUP	required all the way"	and CUG call		

TSS CUG/	TP ISS_I_7_22	ISUP'97 reference 1.5.2.5.2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference None
Test purpose				
	IG interlock code in IAM			
To verify that the IUT r a CUG interlock code	rejects the call with cause #1 in the IAM .	11 "Protocol error, unspecit	fied" in the REL , if a no	on-CUG call has
access	SPA	SPB		
	<iam (cugic)-<="" td=""><th></th><th></th><th></th></iam>			
	(non-CUG,+IA)	incoming access all	owed	
>REL(#111)>				
	<rlc< td=""><th></th><th></th><th></th></rlc<>			
1. No call set u	up should be observed on the	e access side.		
	V for a non-CUG call with IS			equired all the
	CUG interlock code. There is		IAM.	
REL with ca	ause #111 "Protocol error, un	specified".		

	TSS CUG/	TP ISS_I_7_23	-	SUP'97 reference .5.2.5.2/Q.735 [30]	Selection expression DLE	Q.788 [38] reference None
Test purp	ose without interlo	ck code in IAM				
To verify		ects the CUG call wi	th cause #1	11 "Protocol error, u	nspecified" in the REL ,	if there is no
access		SPA	SI	PB		
		<iam (<="" td=""><th>CUGIC)</th><th></th><th></th><td></td></iam>	CUGIC)			
	(+OA,+I	A,-ICB) incomin REL(-		ncoming calls bar	red
		<r< td=""><th>LC</th><th></th><th></th><td></td></r<>	LC			
1.	No call set up	should be observed	l on the acc	ess side.		
2.					P required all the way" There is no CUGIC para	
3.	REL with cau	se #111 "Protocol er	ror, unspec	fied".		

6.2.8 Sub-addressing (SUB)

TSS SUB/	TP ISS_V_8_1	ISUP'97 reference 8.5.2.1.1/Q.731 [25]	Selection expression OLE	Q.788 [38] reference 2.2.1
Test purpose				
Sending the called sub-a	address in the access trai	nsport parameter		
To verify that the IUT ca	n include the called sub-a	address in the access transp	ort parameter in the I	AM.
access	SPA	SPB		
setup	->IAM	>		
1. Set up a call f	from the access with a ca	lled sub-address.		

TSS SUB/	TP ISS_V_8_2	ISUP'97 reference 8.5.2.2.1; 8.5.2.3.1; 8.5.2.4.1/Q.731 [25]	Selection expression IntermE	Q.788 [38] reference 2.2.1
Test purpose Transit support of acces		rt parameter is passed on tra	nengrently in the IAM	
SPC	SPA	SPB	risparentiy in the rAw	•
	>IAM			
1. The PTC will	initiate a call set up with t	he expected parameters.		

Test purpose <i>Receiving the called sub-address in the</i> To verify that a call may be successfull parameter and that the called sub-addr Pre-test conditions	ly established if the IAM contai		n the access transport
To verify that a call may be successfull parameter and that the called sub-addr	ly established if the IAM contai		n the access transport
parameter and that the called sub-addr			·
Pre-test conditions			
Arrange the data in the IUT such that the	he called party subscribes to t	he SUB supplementa	ry service.
access SPA	SPB		
< setup <	-IAM		

TSS SUB/	TP ISS_I_8_4	ISUP'97 reference 8.5.2.5.2/Q.731 [25] ; 2.1.1.6/ EN 300 356-1 [5]	Selection expression DLE	Q.788 [38] reference None
Test purpose				
Receiving the called sub	o-address if it is not suppor	ted at the destination		
To verify that a call may	be successfully establishe	d if the IAM contains the sul	b-address in the acces	ss transport
parameter and the destin	nation address does not su	ubscribe to the SUB supplen	nentary service.	
Pre-test conditions			•	
Arrange the data in the I	UT such that the called pa	rty does not subscribe to the	e SUB supplementary	service.
access	SPA	SPB		
<setup< td=""><th> <iam< th=""><th></th><th></th><th></th></iam<></th></setup<>	<iam< th=""><th></th><th></th><th></th></iam<>			
1. Set up a call t	to the access with the ATP	parameter containing the ca	alled sub-address.	

TSS SUB/	TP ISS_V_8_5	ISUP'97 reference 8.7/Q.731 [25]	Selection expression IntermE	Q.788 [38] reference None
Test purpose				
Interaction with other ne	tworks; no notification is sen	t back to the OLE		
	n successfully establish a ca		ddress if the succeedir	ng network does
not support the sub-add	ress or the supplied length is	not supported.		-
NON-ISUP	SPA S	PB		
<setup< td=""><td> <iam< td=""><th>_</th><th></th><th></th></iam<></td></setup<>	<iam< td=""><th>_</th><th></th><th></th></iam<>	_		
	to a network which does not ort the sub-address length su		ing supplementary serv	vice or which

6.2.9 Malicious call identification (MCID)

TSS MCID/	TP ISS_V_9_1	ISUP'97 reference 7.5.2.1.1/ EN 300 356-11 [14]	Selection expression OLE	Q.788 [38] reference 2.5.1
Test purpose				
Successful MCID requ	est			
To verify that the IUT of	an successfully reply to an	IDR having the MCID reques	st indicator set to "N	ICID request by
sending an IRS with M	CID response indicator s	et to "MCID included" and the	calling party numb	ber included.
access	SPA	SPB		
setup	>IAM	>		
	<idr< td=""><td></td><td></td><td></td></idr<>			
	IRS	>		
1. Set up a cal	I from the access with or w	ithout a calling party number.		
2. IAM may or	may not contain calling par	rty number.		
3. IDR may be	requested even if the initia	I IAM contained calling party	number	

TSS MCID/	TP ISS_V_9_2	ISUP'97 reference 7.5.2.1.1/ EN 300 356-11 [14]	Selection expression OLE	Q.788 [38] reference None
should reply to an IDR h response indicator set	ill accept and reply correct naving the MCID request i to "MCID included" and th	tly to an MCID request after ndicator set to "MCID reque ne calling party number inc has been forwarded before r	est" by sending an IR luded.	S with MCID
access setup <alert< td=""><td>SPA >ACM nging tone <idr IRS</idr </td><td>SPB > </td><td></td><td></td></alert<>	SPA >ACM nging tone <idr IRS</idr 	SPB > 		
	from the access. ng the number of calling pa	irty number.		

TSS MCID		TP ISS_V_9_3	7.5.	reference 2.1.1/ 56-11 [14]	Selection expression OLE AND PICS A.12/1	Q.788 [38] reference 2.5.1	
Test purpose	·						
		vith calling sub-addre					
To verify that t	he IUT can s	uccessfully reply to a	an IDR having the	MCID requ	est indicator set to "M	CID request" by	
sending an IR	S with MCID I	response indicator	set to "MCID inc	luded", the c	alling party number a	nd a calling sub-	
address in the	access tran	sport parameter.				-	
access	SPA		SPB				
set	up>	IAM	>				
		<idr< td=""><td></td><td></td><th></th><td></td></idr<>					
	IRS>						
1. Set up a call from the access with a calling party sub-address.							
1. Set	up a can non	Time access with a c	calling party sub-	address.			

TSS NO_MCID/	T ISS_I	P I_9_4	ISUP'97 reference 7.5.2.1.2/ EN 300 356-11 [14]	Selection expression OLE AND NOT PICS A.3/9	Q.788 [38] reference 2.5.2
Test purpose					
MCID request - MC	ID not supported b	v the OLE			
			ing a IRS with the MCID	response indicator s	set to "MCID not
To verify that the IU			ing a IRS with the MCID	response indicator	set to "MCID not
To verify that the IU			ing a IRS with the MCID	response indicator s	set to "MCID not
To verify that the IU included". access	T rejects a MCID re	equest by sendi	ing a IRS with the MCID	response indicator s	set to "MCID not
To verify that the IU included". access	T rejects a MCID re	equest by sendi	ing a IRS with the MCID	response indicator s	set to "MCID not
To verify that the IU included". access	T rejects a MCID re SPA >II <ii< td=""><td>equest by sendi SPB AM></td><td>ing a IRS with the MCID</td><td>response indicator s</td><td>set to "MCID not</td></ii<>	equest by sendi SPB AM>	ing a IRS with the MCID	response indicator s	set to "MCID not
To verify that the IU included".	T rejects a MCID re SPA >II <ii< td=""><td>equest by sendi SPB AM> DR</td><td>ing a IRS with the MCID</td><td>response indicator s</td><td>set to "MCID not</td></ii<>	equest by sendi SPB AM> DR	ing a IRS with the MCID	response indicator s	set to "MCID not

TSS MCID/	TP ISS_V_9_5	ISUP'97 reference 7.5.2.2.1/ EN 300 356-11 [14]	Selection expression Transit	Q.788 [38] reference None
	1	arently to the preceding exch	ange and the subsec	quent IRS is
Case a)	· · · ·	•		
SPC	SPA	SPB		
IAM	>IAM	>		
<idr< td=""><td> <idr< td=""><td></td><td></td><td></td></idr<></td></idr<>	<idr< td=""><td></td><td></td><td></td></idr<>			
IRS	->IRS	>		
1. The PTC w	ill initiate a call set up.			
Case b)	•			
SPC	SPA	SPB		
IAM	>IAM	>		
<acm< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td></td><td></td><td></td></acm<>			
<idr< td=""><td> <idr< td=""><td></td><td></td><td></td></idr<></td></idr<>	<idr< td=""><td></td><td></td><td></td></idr<>			
IRS	>IRS	>		
1. The PTC w	ill initiate a call set up.			

	TSS MCID/	TP ISS_V_9_6	ISUP'97 reference 7.5.2.3.1/ EN 300 356-11 [14]	Selection expression OutIE AND NOT PICS A.12/4	Q.788 [38] reference None
To verify subsequ	formation passe that a received lent IRS being th	ed and set correctly - outgoing I IDR is transferred transpare ransferred into the internation er is added and the nature of	ently into the national netw nal network so that the co	untry code in the addre	ess signals of
SPC 	national IAM	SPA international S >IAM <idr >IRS</idr 	SPB -> 		
1. 2. 3.	The IDR requ	initiate a call set up with the lest is transferred into the national network of the national network	tional network.	rty number coded as a	n "international

TSS NO_MCID/	TP ISS_I_9_7	ISUP'97 reference 7.5.2.3.2/ EN 300 356-11 [14]	Selection expression OutIE AND NOT PICS A.3/9 AND PICS A.8/3	Q.788 [38] reference 2.5.2
Test purpose				
	ot supported by the calling			
To verify that the outgoir	ng international exchange	rejects a MCID request by s	sending an IRS with the	e MCID
response indicator set	to "MCID not included".			
NOTE 1: This test case	checks the behaviour of t	he IUT if the national netwo	ork does not support M	CID.
SPC national	SPA international	SPB		
IAM	->IAM	>		
	<idr< th=""><th></th><th></th><th></th></idr<>			
	IRS	>		
1. PTC provides	stimulus for normal call se	etup (calling party number r	not included).	
	quest is in this case assum	ed to stop at gateway and		the signalling

TSS MCID/	TP ISS_V_9_8	ISUP'97 reference 7.5.2.4.1/ EN 300 356-11 [14]	Selection expression InclE	Q.788 [38] reference None
To verify that a received transferred into the natio removed if it is the network (significant) number".	ed and set correctly - incomin IDR is transferred transpare onal network so that the cour ork's own country code and	ently into the international ntry code in the address si	ignals of the calling p a	arty number is
SPC international		SPB		
	>IAM <idr< td=""><td></td><td></td><td></td></idr<>			
	<idr< td=""><td></td><td></td><td></td></idr<>			
	initiate a call set up with the code is expected to be stripp		mat converted to natio	nal (significant)

TSS MCID/	TP ISS_I_9_9	ISUP'97 reference 7.5.2.4.2/ EN 300 356-11 [14]	Selection expression IncIE AND PICS A.12/5	Q.788 [38] reference None
Test purpose				
	ot supported by the calling p			
-	tional incoming gateway car			
included" into "MCID inc	luded" and can include the a	available information in the	e calling party numbe	r.
NOTE: The known pa	art of the calling party num	ber is sent with the addre	ss incomplete indicator	set to
"incomplete".	01 7		·	
SPC international	SPA national	SPB		
IAM	->IAM	->		
<idr< td=""><td> <idr< td=""><td></td><td></td><td></td></idr<></td></idr<>	<idr< td=""><td></td><td></td><td></td></idr<>			
IRS	->IRS	->		

1. The PTC will initiate a call set up with the expected parameters.

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]		
MCID/	ISS_V_9_10	7.5.2.5.1 a)/	expression	reference		
		EN 300 356-11 [14]	DLE	2.5.1		
Test purpose						
DLE records call details						
		calling party number and	optionally the calling	sub-address if		
received in the IAM or ir	n the IRS.					
Pre-test conditions						
Arrange the data in the	IUT so that the called user	has subscribed to MCID se	rvice.			
Case a)						
access	SPA	SPB				
<setup< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>					
	to the access.					
	address in ATP.					
	ings should be kept while ir	n active phase of call.				
Case b)						
access	SPA	SPB				
<setup< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>					
	IDR					
	<irs< td=""><td></td><td></td><td></td></irs<>					
	to the access.					
	No number information in IAM.					
	mation in IRS (CgPN and S					
 MCID recordi 	ings should be kept while ir	n active phase of call.				

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]			
MCID/	ISS_V_9_11	7.5.2.5.1 b)/	expression	reference			
		EN 300 356-11 [14]	DLE	2.5.1			
Test purpose	Test purpose						
DLE requests call detail	S						
To verify that the DLE ca	an successfully request the	calling party number and	optionally the calling	sub-address by			
sending an IDR, if there	is no calling party number in	ncluded in the IAM.					
Pre-test conditions							
Arrange the data in the	IUT so that the called user h	as subscribed to MCID ser	rvice.				
access	SPA S	PB					
<setup< td=""><td><iam< td=""><td>-</td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td>-</td><td></td><td></td></iam<>	-					
	IDR	>					
	<irs< td=""><td>-</td><td></td><td></td></irs<>	-					
1. Set up to the access containing no number information.							
2. Number information is provided.							

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]		
MCID/	ISS_I_9_12	7.5.2.5.2/	expression	reference		
		EN 300 356-11 [14]	DLE	2.5.2		
Test purpose						
No MCID information af	ter MCID request					
To verify that the call se	tup is continued (user is aler	ted) if an IRS is received	without the expected N	ICID information		
within timer T39 expiry,	after having sent the IDR wit	h MCID request indicate	or set to "MCID request	ted".		
Pre-test conditions						
Arrange the data in the	UT so that the user has sub	scribed to MCID service.				
Case a)						
access S		SPB				
<setup< td=""><td><iam< td=""><th></th><td></td><td></td></iam<></td></setup<>	<iam< td=""><th></th><td></td><td></td></iam<>					
	IDR>					
	<irs< td=""><th></th><td></td><td></td></irs<>					
1. Set up to the	access containing no numbe	er information				
	mation not provided (MCID r		o CaPN aiven)			
Case b)						
,	SPA S	SPB				
	<pre>IAM</pre>					
	IDR>					
<irs< td=""></irs<>						
1. Set up to the	access containing no number	er information.				
	mation not provided (MCID re		lo CgPN given).			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
MCID/	ISS_I_9_13	7.5.2.5.2/	expression	reference
		EN 300 356-11 [14]	DLE	2.5.3
Test purpose				
MCID timer (T39) expiry	,			
To verify that call setup	is continued (user is alerte	ed) if no IRS is received within	n timer T39 expiry, a	fter having sent
the IDR with MCID requ	est indicator set to "MCI	D requested".	• •	C C
Pre-test conditions		-		
Arrange the data in the I	UT so that the called use	r has subscribed to MCID ser	vice.	
access	SPA	SPB		
<setup< td=""><td><iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>			
	IDR	>		
l	Т39			
	ACM	>		
1. Set up to the	access containing no num	ber information.		

TSS MCID/	TP ISS_V_9_14	ISUP'97 reference 7.7/ EN 300 356-11 [14]	Selection expression OLE AND PICS A.2/4	Q.788 [38] reference 2.5.1
To verify that the OLE carbon by sending an IRS with additional calling party n	st with additional calling par an successfully reply to an I MCID response indicator s umber in the generic numl hat a special arrangement e	DR having the MCID request to "MCID included", the parameter.	e calling party numbe	
Pre-test conditions	UT so that the additional ca			
	PA IAM <idr IRS</idr 	-		
	from the access. CgPN in GenNb.			

TSS MCID/	TP ISS_V_9_15	ISUP'97 reference 7.6.9/ EN 300 356-11 [14]	Selection expression DLE	Q.788 [38] reference None		
Test purpose MCID interaction with DDI To verify that the calling party number , the called party number with DDI are registered if provided. Pre-test conditions Arrange the data in the IUT so that the called user has subscribed to the MCID and DDI services						
Case a) access <setup< td=""><td>SPA <iam< td=""><td>SPB </td><td></td><td></td></iam<></td></setup<>	SPA <iam< td=""><td>SPB </td><td></td><td></td></iam<>	SPB 				
	to the access. CID recordings for the called	party (with DDI)				
Case b)		party (with DDI).				
access	SPA	SPB				
<setup< td=""><td>- <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	- <iam< td=""><td></td><td></td><td></td></iam<>					
	<irs< td=""><td></td><td></td><td></td></irs<>					
	to the access.					
	nformation in IAM.					
	mation in IRS (with DDI).					
4. Check the M	CID recordings for the calling	j party.				

TSS MCID/	TP ISS_V_9_16	ISUP'97 reference 7.6.10/ EN 300 356-11 [14]	Selection expression DLE AND PICS A.12/3	Q.788 [38] reference None
Test purpose MCID interaction with	diversion services			
		the original called number	and the redirecting n	umber are
registered if provided.	51,	5	J	
NOTE: A call divers	sion service has been activa	ated for this call.		
Pre-test conditions				
Arrange the data in the	e IUT so that the user has s	ubscribed to MCID		
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>			
1. Assist setu	o to the access.			
MCID record	dings should be kept while	in active phase of call.		

6.2.10 Conference call, add-on (CONF)

TSS CONF/	TP ISS_V_10_1	ISUP'97 reference 1.5.2.1.1.1/Q.734 [29]	Selection expression Local AND BCall PICS A.13/13	Q.788 [38] reference None
Test purpose Requirement related to e	acho control			
	able to initiate echo control	procedures for the necess	ary leas when a new c	all is added to
the conference.		procedures for the necess	sary legs when a new ca	
NOTE: The used PIC	S is defined for the basic c	all (BCall).		
Pre-test conditions Arrange the data in the I For further study.	UT such that the served us	er subscribes to CONF su	pplementary service.	

TSS CONF/	TP ISS_V_10_2	ISUP'97 reference 1.5.2.1.1.2/Q.734 [29]	Selection expression Local AND	Q.788 [38] reference 2.13.1
			PICS A.13/1	
Test purpose Establishing a conferent To verify that the IUT ca correctly.		onference from an active ca	II and notify the implie	ed parties
	notification indicator set ent indicator should be set	to "conference established" to "progress".	should be sent by th	e IUT in the
Pre-test conditions				
Arrange the data in the	IUT such that the served u	ser subscribes to CONF su	oplementary service.	
SPC SPA	A UNI at A	SPA	SPB	
>>	setup(CR2)->			
< ACM <	<alerting< td=""><td></td><td></td><td></td></alerting<>			
< ANM <	<connect< td=""><td></td><td></td><td></td></connect<>			
<cpg(hold) <<="" td=""><td><info< td=""><td></td><td></td><td></td></info<></td></cpg(hold)>	<info< td=""><td></td><td></td><td></td></info<>			
setup(CR1)->	>			
-	<al< td=""><td>erting <acm< td=""><td></td><td></td></acm<></td></al<>	erting <acm< td=""><td></td><td></td></acm<>		
	<c< td=""><td>onnect <anm< td=""><td></td><td></td></anm<></td></c<>	onnect <anm< td=""><td></td><td></td></anm<>		
		. check communication	n	
	fa	c(beqC)-> -CPG(conf	est)->	
< REL <		disc>REL	,	
>		<rlc< td=""><td></td><td></td></rlc<>		
1. Assist a call s	set up to UNI at SPB.			
	•	tification "conference estab	lished" is received in	the CPG.
		I check that all network reso		

CONF/	TP ISS_V_10_		97 reference 1.2/Q.734 [29]	Selection expression Local AND PICS A.13/1	Q.788 [38] reference 2.13.1
Test purpose <i>Adding calls (conferees</i> To verify that the IUT is			e and notify the	implied parties correc	tly.
affected conf	feree and the generi	c notification indic	ator set to "other	nould be sent by the II r party added" to the r	
	he event indicator in	the CPG should b	be set to "progre	SS".	
Pre-test conditions Arrange the data in the	II IT such that the se	erved user subscri	oes to CONE su	nnlementary service	
Case a)				ppionioniary convice.	
,	PA UNI	at A	SPA	SPB	
>					
<acm< td=""><td></td><td></td><td></td><td></td><td></td></acm<>					
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<cpg(hold)< td=""><td></td><td>actum (OD1)</td><td></td><td></td><td></td></cpg(hold)<>		actum (OD1)			
		setup(CR1)-: <alerting< td=""><td></td><td></td><td></td></alerting<>			
		<connect< td=""><td></td><td></td><td></td></connect<>			
			communicatio		
		fac(begC)-			
<-CPG(conf est)	<fac(addc)-< td=""><td></td><td>-CPG(oth j</td><td>pty add)></td><td></td></fac(addc)-<>		-CPG(oth j	pty add)>	
	disc>				
<rel< td=""><td></td><td>disc:</td><td></td><td></td><td></td></rel<>		disc:			
>			<rlc< td=""><td></td><td></td></rlc<>		
"other_party_	onferee to the estab _added" in the CPG.		-	criber at SPB by send	ing him/her
"other_party_ 4. The conferer Case b)	onferee to the estab _added" in the CPG. nce is released by ca	lished conference all clearing by the s	served user at S	PA.	ing him/her
"other_party_ 4. The conferer Case b) SPC SI	onferee to the estab _added" in the CPG. nce is released by ca	lished conference all clearing by the s at A	-	-	ing him/her
"other_party_ 4. The conferer Case b)	onferee to the estab _added" in the CPG. nce is released by ca PA UNI setup(CR2)->	lished conference all clearing by the s at A	served user at S	PA.	ing him/her
"other_party_ 4. The conferent Case b) SPC SI SPC SI SI IAM> SI SI <acm< td=""> SI SI</acm<>	onferee to the estab _added" in the CPG. nce is released by ca PA UNI setup(CR2)-> <alerting <connect< td=""><td>lished conference all clearing by the s at A</td><td>served user at S</td><td>PA.</td><td>ing him/her</td></connect<></alerting 	lished conference all clearing by the s at A	served user at S	PA.	ing him/her
"other_party_ 4. The conferer Case b) SPC SI IAM> <acm< td=""><td>Added" in the CPG. added" in the CPG. ace is released by ca setup(CR2)-> <alerting <connect <info< td=""><td>lished conference all clearing by the s at A</td><td>SPA</td><td>PA. SPB</td><td>ing him/her</td></info<></connect </alerting </td></acm<>	Added" in the CPG. added" in the CPG. ace is released by ca setup(CR2)-> <alerting <connect <info< td=""><td>lished conference all clearing by the s at A</td><td>SPA</td><td>PA. SPB</td><td>ing him/her</td></info<></connect </alerting 	lished conference all clearing by the s at A	SPA	PA. SPB	ing him/her
"other_party_ 4. The conferent Case b) SPC SI SPC SI SI IAM> SI SI <acm< td=""> SI SI</acm<>	onferee to the estab _added" in the CPG. nee is released by ca PA UNI setup(CR2)-> <alerting <connect <info< td=""><td>all clearing by the stat A</td><td>SPA</td><td>PA. SPB M></td><td>ing him/her</td></info<></connect </alerting 	all clearing by the stat A	SPA	PA. SPB M>	ing him/her
"other_party_ 4. The conferent Case b) SPC SI SPC SI SI IAM> SI SI <acm< td=""> SI SI</acm<>	onferee to the estab _added" in the CPG. nee is released by ca PA UNI setup(CR2)-> <alerting <connect <info< td=""><td>all clearing by the s at A setup(CR1)- <alerting< td=""><td>SPA SPA</td><td>PA. SPB M> M></td><td>ing him/her</td></alerting<></td></info<></connect </alerting 	all clearing by the s at A setup(CR1)- <alerting< td=""><td>SPA SPA</td><td>PA. SPB M> M></td><td>ing him/her</td></alerting<>	SPA SPA	PA. SPB M> M>	ing him/her
"other_party_ 4. The conferent Case b) SPC SI SPC SI SI IAM> SI SI <acm< td=""> SI SI</acm<>	onferee to the estab _added" in the CPG. nee is released by ca PA UNI setup(CR2)-> <alerting <connect <info< td=""><td><pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect<="" pre=""></alerting></pre></td><td>SPA SPA</td><td>PA. SPB M> M</td><td>ing him/her</td></info<></connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect<="" pre=""></alerting></pre>	SPA SPA	PA. SPB M> M	ing him/her
"other_party_ 4. The conferer Case b) SPC SI IAM> <acm <anm< td=""><td>onferee to the estab _added" in the CPG. nee is released by ca PA UNI setup(CR2)-> <alerting <connect <info< td=""><td><pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect<="" pre=""></alerting></pre></td><td>SPA SPA IA - <ac - <an communication</an </ac </td><td>PA. SPB M> Mn</td><td>ing him/her</td></info<></connect </alerting </td></anm<></acm 	onferee to the estab _added" in the CPG. nee is released by ca PA UNI setup(CR2)-> <alerting <connect <info< td=""><td><pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect<="" pre=""></alerting></pre></td><td>SPA SPA IA - <ac - <an communication</an </ac </td><td>PA. SPB M> Mn</td><td>ing him/her</td></info<></connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect<="" pre=""></alerting></pre>	SPA SPA IA - <ac - <an communication</an </ac 	PA. SPB M> Mn	ing him/her
<pre>"other_party_ 4. The conferen Case b) SPC SI IAM> <acm <anm <cpg(hold)< pre=""></cpg(hold)<></anm </acm </pre>	onferee to the estab _added" in the CPG. nee is released by ca PA UNI setup(CR2)-> <alerting <connect <info< td=""><td><pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA IA - <ac - <an communication</an </ac </td><td>PA. SPB M> M n f est)-></td><td>ing him/her</td></alerting></pre></td></info<></connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA IA - <ac - <an communication</an </ac </td><td>PA. SPB M> M n f est)-></td><td>ing him/her</td></alerting></pre>	SPA SPA IA - <ac - <an communication</an </ac 	PA. SPB M> M n f est)->	ing him/her
<pre>"other_party_ 4. The conferen Case b) SPC SI IAM> <acm <cpg(hold) <cpg(conf est)-<br="">IAM(cic2)></cpg(conf></cpg(hold) </acm </pre>	onferee to the estab _added" in the CPG. nce is released by ca PA UNI setup(CR2)-> <alerting <connect <info <fac(addc) setup(CR3)-></fac(addc) </info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA IA AN communication CPG(con</td><td>PA. SPB M> M n f est)-></td><td>ing him/her</td></alerting></pre>	SPA SPA IA AN communication CPG(con	PA. SPB M> M n f est)->	ing him/her
<pre>"other_party_ 4. The conferen Case b) SPC SI IAM> <acm <cpg(hold) <cpg(conf est)-<br="">IAM(cic2)> <acm< pre=""></acm<></cpg(conf></cpg(hold) </acm </pre>	onferee to the estab _added" in the CPG. nce is released by ca PA UNI setup(CR2)-> <alerting <connect <info <fac(addc) setup(CR3)-> <alerting< td=""><td><pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect<="" td=""><td>SPA SPA IA AN communication CPG(con</td><td>PA. SPB M> M n f est)-></td><td>ing him/her</td></alerting></pre></td></alerting<></fac(addc) </info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect<="" td=""><td>SPA SPA IA AN communication CPG(con</td><td>PA. SPB M> M n f est)-></td><td>ing him/her</td></alerting></pre>	SPA SPA IA AN communication CPG(con	PA. SPB M> M n f est)->	ing him/her
<pre>"other_party_ 4. The conferen Case b) SPC SI IAM> <acm <cpg(hold) <cpg(conf est)-<br="">IAM(cic2)> <acm <anm< pre=""></anm<></acm </cpg(conf></cpg(hold) </acm </pre>	onferee to the estab _added" in the CPG. here is released by ca PA UNI setup(CR2)-> <alerting <connect <info <info setup(CR3)-> <alerting <connect< td=""><td><pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M m f est)-> pty add)></td><td>ing him/her</td></alerting></pre></td></connect<></alerting </info </info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M m f est)-> pty add)></td><td>ing him/her</td></alerting></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M m f est)-> pty add)>	ing him/her
<pre>"other_party_ 4. The conferen Case b) SPC SI ACM <anm <cpg(hold) <iam(cic2)> <acm <anm <cpg(conf est)-<="" pre=""></cpg(conf></anm </acm </iam(cic2)></cpg(hold) </anm </pre>	onferee to the estab _added" in the CPG. _nce is released by ca PA UNI setup(CR2)-> <alerting <connect <info <setup(cr3)-> <alerting <connect <fac(addc)< td=""><td><pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M m f est)-> pty add)></td><td>ing him/her</td></alerting></pre></td></fac(addc)<></connect </alerting </setup(cr3)-></info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M m f est)-> pty add)></td><td>ing him/her</td></alerting></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M m f est)-> pty add)>	ing him/her
<pre>"other_party_ 4. The conferen Case b) SPC SI IAM> <acm <cpg(hold) <cpg(conf est)-<br="">IAM(cic2)> <acm <anm< pre=""></anm<></acm </cpg(conf></cpg(hold) </acm </pre>	onferee to the estab _added" in the CPG. _nce is released by ca PA UNI setup(CR2)-> <alerting <connect <info <setup(cr3)-> <alerting <connect <fac(addc)< td=""><td><pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M m f est)-> pty add)></td><td>ing him/her</td></alerting></pre></td></fac(addc)<></connect </alerting </setup(cr3)-></info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M m f est)-> pty add)></td><td>ing him/her</td></alerting></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M m f est)-> pty add)>	ing him/her
<pre>"other_party_ 4. The conferen Case b) SPC SI ACM <anm <cpg(hold) <iam(cic2)> <acm <anm <cpg(conf est)-<="" pre=""></cpg(conf></anm </acm </iam(cic2)></cpg(hold) </anm </pre>	onferee to the estab _added" in the CPG. _ace is released by ca PA UNI setup(CR2)-> <alerting <connect <info <alerting <alerting <alerting <alerting <fac(addc) setup(CR3)-> <-alerting <fac(addc) fac(addC)</fac(addc) </fac(addc) </alerting </alerting </alerting </alerting </info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M m f est)-> pty add)> pty add)></td><td>ing him/her</td></alerting></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M m f est)-> pty add)> pty add)>	ing him/her
<pre>"other_party_ 4. The conferent Case b) SPC SI ACM <anm <cpg(hold) <cpg(hold) <acm <anm <-CPG(conf est)- <-CPG(conf est)- <-CPG(conf est)- <rel(cicl) </rel(cicl) </anm </acm </cpg(hold) </cpg(hold) </anm </pre>	onferee to the estab _added" in the CPG. _ace is released by ca PA UNI setup(CR2)-> <alerting <connect <info <alerting <alerting <alerting <alerting <fac(addc) setup(CR3)-> <-alerting <fac(addc) fac(addC)</fac(addc) </fac(addc) </alerting </alerting </alerting </alerting </info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M M n f est)-> pty add)> pty add)> L></td><td>ing him/her</td></alerting></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M M n f est)-> pty add)> pty add)> L>	ing him/her
<pre>"other_party_ 4. The conferent Case b) SPC SI ACM <acm <cpg(hold) <cpg(hold) <acm <acm <cpg(conf est)-<br=""><-CPG(conf est)- <cpg(oth add)-<br="" pty=""><rel(cicl)< pre=""></rel(cicl)<></cpg(oth></cpg(conf></acm </acm </cpg(hold) </cpg(hold) </acm </pre>	onferee to the estab _added" in the CPG. _ace is released by ca PA UNI setup(CR2)-> <alerting <connect <info <alerting <alerting <alerting <alerting <fac(addc) setup(CR3)-> <-alerting <fac(addc) fac(addC)</fac(addc) </fac(addc) </alerting </alerting </alerting </alerting </info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M M n f est)-> pty add)> pty add)> L></td><td>ing him/her</td></alerting></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M M n f est)-> pty add)> pty add)> L>	ing him/her
<pre>"other_party_ 4. The conferent Case b) SPC SI ACM <acm <cpg(hold) <cpg(hold) <acm <acm <cpg(conf est)-<br=""><-CPG(conf est)- <-CPG(conf est)- <rel(cic1) </rel(cic1) </cpg(conf></acm </acm </cpg(hold) </cpg(hold) </acm </pre>	onferee to the estab _added" in the CPG. _ace is released by ca PA UNI setup(CR2)-> <alerting <connect <info <alerting <alerting <alerting <alerting <fac(addc) setup(CR3)-> <-alerting <fac(addc) fac(addC)</fac(addc) </fac(addc) </alerting </alerting </alerting </alerting </info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M M n f est)-> pty add)> pty add)> L></td><td>ing him/her</td></alerting></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M M n f est)-> pty add)> pty add)> L>	ing him/her
<pre>"other_party_ 4. The conferent Case b) SPC SI ACM <acm <cpg(hold) <cpg(hold) <acm <acm <cpg(conf est)-<br=""><-CPG(conf est)- <-CPG(oth pty add) <rel(cic1) </rel(cic1) </cpg(conf></acm </acm </cpg(hold) </cpg(hold) </acm </pre>	onferee to the estab _added" in the CPG. _ace is released by ca PA UNI setup(CR2)-> <alerting <connect <info <alerting <alerting <alerting <alerting <fac(addc) setup(CR3)-> <-alerting <fac(addc) fac(addC)</fac(addc) </fac(addc) </alerting </alerting </alerting </alerting </info </connect </alerting 	<pre>ished conference all clearing by the s at Asetup(CR1) <alerting <connect="" checkfac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M> M M n f est)-> pty add)> pty add)> L></td><td>ing him/her</td></alerting></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M M n f est)-> pty add)> pty add)> L>	ing him/her
<pre>"other_party_ 4. The conferent Case b) SPC SI ACM <anm <cpg(hold) <cpg(hold) <acm <acm <anm <-CPG(conf est)- <-CPG(conf est)- <-CPG(oth pty add) <rel(cic1) RLC> <rel(cic2) </rel(cic2) </rel(cic1) </anm </acm </acm </cpg(hold) </cpg(hold) </anm </pre>	onferee to the estab _added" in the CPG. _ce is released by ca PA UNI setup(CR2)-> <alerting <connect <info <alerting <alerting <alerting <fac(addc) - (cic1) set up to UNI at SPE conference from SPA</fac(addc) </alerting </alerting </alerting </info </connect </alerting 	<pre>lished conference all clearing by the s at Asetup(CR1) <connect 3.="" <connect="" checkfac(begc)disc="" pre="" spb.<="" to=""></connect></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M M n f est)-> pty add)> L> C	
"other_party_ 4. The conferent Case b) SPC SI ACM <cpg(hold) <cpg(hold) <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <</acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </cpg(hold) </cpg(hold) 	onferee to the estab _added" in the CPG. _ce is released by ca PA UNI setup(CR2)-> <alerting <connect <info <alerting <alerting <alerting <fac(addc) - (cic1) set up to UNI at SPE ponference from SPA</fac(addc) </alerting </alerting </alerting </info </connect </alerting 	<pre>lished conference all clearing by the s at Asetup(CR1) <connect 3.="" <connect="" checkfac(begc)disc="" pre="" spb.<="" to=""></connect></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M> M M n f est)-> pty add)> pty add)> L>	
<pre>"other_party_ 4. The conferent Case b) SPC SI ACM <cpg(hold) <cpg(hold) <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <acm <</acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </acm </cpg(hold) </cpg(hold) </pre>	onferee to the estab _added" in the CPG. _ce is released by ca PA UNI setup(CR2)-> <alerting <connect <info <alerting <alerting <alerting <fac(addc) - (cic1) set up to UNI at SPE conference from SPA</fac(addc) </alerting </alerting </alerting </info </connect </alerting 	<pre>lished conference all clearing by the s at Asetup(CR1) <connect <connectfac(begc)fac(begc)<="" td=""><td>SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA</td><td>PA. SPB M M M M n f est)-> pty add)> L> C ubscriber at SPB by set</td><td></td></connect></pre>	SPA SPA SPA SPA SPA SPA SPA SPA SPA SPA	PA. SPB M M M M n f est)-> pty add)> L> C ubscriber at SPB by set	

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TSS CONF/	TP ISS_V_10_4	ISUP'97 reference 1.5.2.1.1.2/Q.734 [29]	Selection expression Local AND PICS A.13/2	Q.788 [38] reference None
Test purpose				
	Imber of conferees in a co			
To verify that the IUT is implied parties correctly.		allowed number of conferee	s to a conference and	notify the
NOTE: The generic	notification indicator set	to "conference established" fication indicator set to "ot		
		PG should be set to "progre		e non-anecleu
Pre-test conditions		Silouid be set to progre		
	I IT such that the served u	ser subscribes to CONF su	nnlementary service	
SPC SP		SPA	SPB	
IAM>		5171	DID	
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td>5</td><td></td><td></td><td></td></anm<>	5			
<cpg(hold)< td=""><td></td><td></td><td></td><td></td></cpg(hold)<>				
		up(CR1)->IA	M>	
	<al< td=""><td>erting <ac< td=""><td>M</td><td></td></ac<></td></al<>	erting <ac< td=""><td>M</td><td></td></ac<>	M	
		onnect <an< td=""><td></td><td></td></an<>		
		. check communication	n	
	fa	c(begC)->CPG(con	f est)->	
<-CPG(conf est)-	<fac(addc)< td=""><td>CPG(oth</td><td>pty add)></td><td></td></fac(addc)<>	CPG(oth	pty add)>	
****** At th	is point there are	3 conferees in confe	rence *****	
REPEAT for each ne	w conferee			
		3n; n = maximum num	mber of conferee	s-2
<acm< td=""><td><alerting< td=""><td></td><td></td><td></td></alerting<></td></acm<>	<alerting< td=""><td></td><td></td><td></td></alerting<>			
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<-CPG(conf est)-	. ,	CPG(oth	pty add)>	
	disc>			
	(cicz) z=1,2n-1			
Release conference				
	y=1,2n-1	disc>REL		
RLC>		<rlc< td=""><td></td><td></td></rlc<>		
	et up to UNI at SPB.			
	onference from SPA to SP			
		ed conference and notify su	ibscriber at SPB by se	ending him/her
	dded" in the CPG.			
The conferen	<u>ce is released by ca</u> ll clear	ing by the served user at S	PA.	

TSS CONF/	TP ISS_V_10_5		P'97 reference .1.1.3/Q.734 [29]	Selection expression Local	Q.788 [38] reference
001117	100_1_10_0	1.0.2		AND PICS A.13/1	2.13.2
Test purpose		ł			ł
Isolation of party					
To verify that the IUT car	n successfully isolate	e a conferee fro	om the conference	and notify the implied	parties
correctly.					
NOTE: The generic I	notification indicato	or set to "isolat	ed" within call pro	gress should be sent l	by the IUT to the
affected confe	eree and the generic	notification i	ndicator set to "of	ther party isolated" sho	uld be sent to
the non-affect	ted conferees. The ev	vent indicator i	n the CPG should	be set to "progress". T	he isolated
conferee shou	uld not be able to cor	nmunicate with	n the rest of the co	onference.	
Pre-test conditions					
Arrange the data in the I	UT such that the service	ved user subse	cribes to CONF su	pplementary service.	
SPC SP	A UNI a	tΑ	SPA	SPB	
>	setup(CR2)->				
<acm< td=""><td><alerting< td=""><td></td><td></td><td></td><td></td></alerting<></td></acm<>	<alerting< td=""><td></td><td></td><td></td><td></td></alerting<>				
<anm< td=""><td><connect< td=""><td></td><td></td><td></td><td></td></connect<></td></anm<>	<connect< td=""><td></td><td></td><td></td><td></td></connect<>				
<cpg(hold)< td=""><td><info< td=""><td></td><td></td><td></td><td></td></info<></td></cpg(hold)<>	<info< td=""><td></td><td></td><td></td><td></td></info<>				
	-	-setup(CR1)	->IA	M>	
	<	alerting-	<ac< td=""><td>M</td><td></td></ac<>	M	
	<	connect-	<an< td=""><td>M</td><td></td></an<>	M	
		check	communicatio	n	
	-	fac(begC)	->CPG(con	f est)->	
<-CPG(conf est)-	<fac(addc)< td=""><td></td><td>CPG(oth</td><td>pty add)></td><td></td></fac(addc)<>		CPG(oth	pty add)>	
IAM(cic2)>	setup(CR3)->				
<acm< td=""><td><alerting< td=""><td></td><td></td><td></td><td></td></alerting<></td></acm<>	<alerting< td=""><td></td><td></td><td></td><td></td></alerting<>				
<	<connect< td=""><td></td><td></td><td></td><td></td></connect<>				
<-CPG(conf est)-	<fac(addc)< td=""><td></td><td>CPG(oth</td><td>pty add)></td><td></td></fac(addc)<>		CPG(oth	pty add)>	
	disc>				
<cpg(oth add)-<="" pty="" td=""><td></td><td></td><td></td><td></td><td></td></cpg(oth>					
<cpg(oth iso)-<="" pty="" td=""><td>(cicl) -</td><td>fac(isoC)</td><td>>CPG(is</td><td>olated)-></td><td></td></cpg(oth>	(cicl) -	fac(isoC)	>CPG(is	olated)->	
<cpg(oth iso)-<="" pty="" td=""><td></td><td></td><td></td><td></td><td></td></cpg(oth>					
<cpg(oth pty="" rea)-<="" td=""><td>, ,</td><td>fac(reaC)</td><td>>CPG(re</td><td>attach)-></td><td></td></cpg(oth>	, ,	fac(reaC)	>CPG(re	attach)->	
<cpg(oth pty="" rea)-<="" td=""><td>(cic2)</td><td></td><td></td><td></td><td></td></cpg(oth>	(cic2)				
<rel(cicl)< td=""><td>-</td><td>disc</td><td>>R</td><td></td><td></td></rel(cicl)<>	-	disc	>R		
>			<r< td=""><td>LC</td><td></td></r<>	LC	
<rel(cic2)< td=""><td></td><td></td><td></td><td></td><td></td></rel(cic2)<>					
RLC>					
1. Assist a call s	et up to UNI at SPB.				
	onference from SPA t	to SPB.			
			ence and notify su	ubscriber at SPB by sei	ndina him/her
	dded" in the CPG.		shot and notify St		
	eree and check that	the notification	"isolated" is recei	ved in the CPG	
5. Reattach the					
	ce is released by call	clearing by th	e served user at S	PA	
o. The contenent		sistering by th		// / \.	

TSS CONF/	TP ISS_V_10_6		7 reference 4/Q.734 [29]	Selection expression Local AND PICS A.13/1	Q.788 [38] reference 2.13.2
Test purpose					•
Reattachment of party					
To verify that the IUT ca	n successfully reattach th	e isolated con	feree to the co	onference and notify the	ne implied parties
correctly.	-				
NOTE: The generic	notification indicator se	t to "reattache	d" should be s	ent by the IUT to the a	affected conferee
	ric notification indicato				
	e event indicator in the C				
Pre-test conditions					
Arrange the data in the I	UT such that the served	user subscribe	s to CONF su	pplementary service.	
SPC SP			SPA	SPB	
>	setup(CR2)->				
<acm< td=""><td>_</td><td></td><td></td><td></td><td></td></acm<>	_				
<anm< td=""><td><connect< td=""><td></td><td></td><td></td><td></td></connect<></td></anm<>	<connect< td=""><td></td><td></td><td></td><td></td></connect<>				
<cpg(hold)< td=""><td><info< td=""><td></td><td></td><td></td><td></td></info<></td></cpg(hold)<>	<info< td=""><td></td><td></td><td></td><td></td></info<>				
		tup(CR1)->	IA	M>	
		lerting			
		connect			
		check co	mmunicatio	n	
		ac(beqC)->			
<-CPG(conf est)-		(),		pty add)>	
· · · · ·	setup(CR3)->		(1 2,	
<acm< td=""><td>- · · ·</td><td></td><td></td><td></td><td></td></acm<>	- · · ·				
<anm< td=""><td><connect< td=""><td></td><td></td><td></td><td></td></connect<></td></anm<>	<connect< td=""><td></td><td></td><td></td><td></td></connect<>				
<-CPG(conf est)-	<fac(addc)< td=""><td></td><td>CPG(oth</td><td>pty add)></td><td></td></fac(addc)<>		CPG(oth	pty add)>	
, , , , ,	disc>		·	- - <i>'</i>	
<cpg(oth add)-<="" pty="" td=""><td>(cicl)</td><td></td><td></td><td></td><td></td></cpg(oth>	(cicl)				
<cpg(oth iso)-<="" pty="" td=""><td></td><td>ac(isoC)-></td><td>CPG(iso</td><td>lated)></td><td></td></cpg(oth>		ac(isoC)->	CPG(iso	lated)>	
<cpg(oth iso)-<="" pty="" td=""><td></td><td></td><td></td><td></td><td></td></cpg(oth>					
<cpg(oth pty="" rea)-<="" td=""><td></td><td>ac(reaC)-></td><td>CPG(rea</td><td>ttach)></td><td></td></cpg(oth>		ac(reaC)->	CPG(rea	ttach)>	
<cpg(oth pty="" rea)-<="" td=""><td>(cic2)</td><td></td><td></td><td></td><td></td></cpg(oth>	(cic2)				
<rel(cicl)< td=""><td></td><td>-disc></td><td>R</td><td>EL></td><td></td></rel(cicl)<>		-disc>	R	EL>	
RLC>			<r< td=""><td>LC</td><td></td></r<>	LC	
<rel(cic2)< td=""><td></td><td></td><td></td><td></td><td></td></rel(cic2)<>					
RLC>					
1. Assist a call s	et up to UNI at SPB.				
	onference from SPA to SI	PB.			
	conferees to the establis		e and notifv su	ubscriber at SPB by se	ending him/her
	dded" in the CPG.				3
1, 2,	eree and check that the r	otification "iso	lated" is receiv	ved in the CPG.	
5. Reattach the					
	ce is released by call clea				

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CONF/	ISS_V_10_7	1.5.2.1.1.5/Q.734 [29]	expression Local AND PICS A.13/1	reference 2.13.2
Test purpose				
Splitting of a party				
To verify that the IUT ca	an create a private communi	ication between the served	l user and one of the c	conferees and
notify the implied parties				
NOTE 1: The generic	notification indicator set to "	conference disconnected"	should be sent by the	IUT to the
	eree and the generic notific			
	erees. The event indicator in			
	ould not be able to participa		the private communic	cation.
0	re 1-5/ITU-T Recommendat	tion Q.734 [29] .		
Pre-test conditions				
v	IUT such that the served us			
	PA UNI at A	SPA	SPB	
>				
<acm< td=""><td>_</td><td></td><td></td><td></td></acm<>	_			
<anm <cpg(hold)< td=""><td></td><td></td><td></td><td></td></cpg(hold)<></anm 				
<cpg(11010)< td=""><td></td><td>up(CR1)->IA</td><td>M></td><td></td></cpg(11010)<>		up(CR1)->IA	M>	
		erting <ac< td=""><td></td><td></td></ac<>		
		onnect <an< td=""><td></td><td></td></an<>		
		check communication		
		(beqC)->CPG(con		
<-CPG(conf est)-	<fac(addc)< td=""><td>CPG(oth</td><td>pty add)></td><td></td></fac(addc)<>	CPG(oth	pty add)>	
IAM(cic2)>	setup(CR2)->			
<acm< td=""><td><alerting< td=""><td></td><td></td><td></td></alerting<></td></acm<>	<alerting< td=""><td></td><td></td><td></td></alerting<>			
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<-CPG(conf est)-	. ,		pty add)>	
		lisc>		
<cpg(oth add)-<="" pty="" td=""><td></td><td></td><td></td><td></td></cpg(oth>				
		up(CR2)->		
<cpg(oth pty="" split<="" td=""><td></td><td>onnect CPG(con</td><td>f digg) ></td><td></td></cpg(oth>		onnect CPG(con	f digg) >	
<cpg(oth pty="" split<br=""><cpg(oth pty="" split<="" td=""><td></td><td>CPG(COII</td><td>i disc)-></td><td></td></cpg(oth></cpg(oth>		CPG(COII	i disc)->	
Crd(Och pcy spire	-) (CICZ)			
<rel(cic1)< td=""><td><disc(cr1)dis< td=""><td>sc(CR2)->RE</td><td>T></td><td></td></disc(cr1)dis<></td></rel(cic1)<>	<disc(cr1)dis< td=""><td>sc(CR2)->RE</td><td>T></td><td></td></disc(cr1)dis<>	sc(CR2)->RE	T>	
>RLC>		<rl< td=""><td></td><td></td></rl<>		
<rel(cic2)< td=""><td></td><td></td><td></td><td></td></rel(cic2)<>				
RLC>				
1. Assist a call s	set up to UNI at SPB.			
Establish a c	onference from SPA to SPB			
	conferees to the establishe	d conference and notify su	bscriber at SPB by se	nding him/her
	added" in the CPG.			
	eree at SPB and check that	the notification "conference	e disconnected" is rec	ceived in the
CPG.				
	communication between sub			
	nce is released by call clearing		PA (CR1) and the priv	rate
communicati	on by normal call clearing (C	JR2).		

Test purpose Disconnection of confere To verify that IUT can suc			Local AND PICS A.13/1	2.13.3
Disconnection of confere				
			·	
To verify that IUT can suc				
	ccessfully disconnect a co	onferee from the conference	e, if requested by the s	erved user, and
notify the implied parties	correctly.			
		the conferee according to		
		the conference. The gene		
party disconne	ected" should be sent to the	ne non-affected conferees.	The event indicator in	the CPG should
be set to "prog	gress".			
Pre-test conditions				
Arrange the data in the Il	JT such that the served u	ser subscribes to CONF s	upplementary service.	
SPC SPA		SPA	SPB	
> -				
< ACM 4	5			
< ANM •				
<cpg(hold)< td=""><td></td><td>(a)</td><td></td><td></td></cpg(hold)<>		(a)		
		up(CR1)->I.		
		erting <a onnect <a< td=""><td></td><td></td></a<></a 		
		. check communication		
		c(beqC)->CPG(co:		
<-CPG(conf est)-			h pty add)>	
	setup(CR3)->			
< ACM 4	1 1 1			
	<connect< td=""><td></td><td></td><td></td></connect<>			
<-CPG(conf est)-	<fac(addc)< td=""><td>CPG(ot</td><td>h pty add)></td><td></td></fac(addc)<>	CPG(ot	h pty add)>	
-	disc>			
<cpg(oth add)-<="" pty="" td=""><td>(cicl)</td><td></td><td></td><td></td></cpg(oth>	(cicl)			
<cpg(oth disc)-<="" pty="" td=""><td></td><td>c(dropC)-></td><td>REL></td><td></td></cpg(oth>		c(dropC)->	REL>	
<cpg(oth disc)-<="" pty="" td=""><td>- (cic2)</td><td><</td><td>RLC</td><td></td></cpg(oth>	- (cic2)	<	RLC	
<rel(cicl)< td=""><td><disc< td=""><td></td><td></td><td></td></disc<></td></rel(cicl)<>	<disc< td=""><td></td><td></td><td></td></disc<>			
>				
<rel(cic2)< td=""><td></td><td></td><td></td><td></td></rel(cic2)<>				
RLC>				
	et up to UNI at SPB. nference from SPA to SP	D		
		D. ed conference and notify s	ubscriber at SDR by as	nding him/hor
	ded" in the CPG.	eu comerence and notify s	Subscriber at SPD by Se	nuing nim/nef
	ropped party at SPB.			
		ring by the served user at	SDV	

TSS CONF/	TP ISS_V_10_9	ISUP'97 reference 1.5.2.1.1.7/Q.734 [29]	Selection expression Local AND PICS A.13/1	Q.788 [38] reference 2.13.3
Test purpose Disconnection by a conf To verify that IUT can su notify the implied parties	ccessfully disconnect a con	feree from the conference	e, if requested by the co	onferee, and
send a RLC in generic notif conferees. Th	Id release the leg towards the response to the REL to a contract to ication indicator set to "other e event indicator in the CPC	conferee connected to the her party disconnected" sh	conference through IS hould be sent to the not	SUP. The
Pre-test conditions	u .			
Arrange the data in the I SPC SP	UT such that the served use A UNI at A	er subscribes to CONF su SPA	pplementary service. SPB	
<cpg(oth add)-<="" pty="" td=""><td><alerting <connect <info <aler <con fac(addC) setup(CR3)-> <alerting <connect <fac(addc) disc> (cicl) - (cicl) <-fac(g</fac(addc) </connect </alerting </con </aler </info </connect </alerting </td><td>CPG(oth pty disc)- <r< td=""><td>M M f est)-> pty add)> pty add)></td><td></td></r<></td></cpg(oth>	<alerting <connect <info <aler <con fac(addC) setup(CR3)-> <alerting <connect <fac(addc) disc> (cicl) - (cicl) <-fac(g</fac(addc) </connect </alerting </con </aler </info </connect </alerting 	CPG(oth pty disc)- <r< td=""><td>M M f est)-> pty add)> pty add)></td><td></td></r<>	M M f est)-> pty add)> pty add)>	
Establish a co	<disc et up to UNI at SPB. onference from SPA to SPB. conferees to the established</disc 		Ibscriber at SPB by ser	nding him/her
"other party a 4. Release requ	dded" in the CPG. est by the conferee at SPB. ce is released by call clearin			-

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
CONF/	ISS_V_10_10	1.5.2.1.1.8/Q.734 [29]	expression	reference
			Local AND	2.13.2
			PICS A.13/1	
Test purpose				
Termination of conferen	се			
	accessfully disconnect all co		ice, if requested by the	served user,
	all release procedure toward			
NOTE: The IUT shou	Id send REL to all conferee	es connected to the confer	ence.	
Pre-test conditions				
Arrange the data in the I	UT such that the served use	er subscribes to CONF su	pplementary service.	
SPC SP	A UNI at A	SPA	SPB	
>IAM>				
<acm< td=""><td>2</td><td></td><td></td><td></td></acm<>	2			
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<cpg(hold)< td=""><td><info< td=""><td></td><td></td><td></td></info<></td></cpg(hold)<>	<info< td=""><td></td><td></td><td></td></info<>			
	setu	p(CR1)->IA	M>	
		rting <ac< td=""><td></td><td></td></ac<>		
		nnect <an< td=""><td></td><td></td></an<>		
		check communication		
		(begC)->CPG(con		
<-CPG(conf est)-		CPG(oth	pty add)>	
	setup(CR3)->			
<acm< td=""><td>2</td><td></td><td></td><td></td></acm<>	2			
	<connect< td=""><td></td><td></td><td></td></connect<>			
<-CPG(conf est)-	, ,		pty add)>	
		isc>		
<cpg(oth add)-<="" pty="" td=""><td></td><td></td><td></td><td></td></cpg(oth>				
<rel(cic1)< td=""><td></td><td>endC)>RE</td><td></td><td></td></rel(cic1)<>		endC)>RE		
>	<d< td=""><td>isc <rl< td=""><td>C</td><td></td></rl<></td></d<>	isc <rl< td=""><td>C</td><td></td></rl<>	C	
<rel(cic2)< td=""><td></td><td></td><td></td><td></td></rel(cic2)<>				
RLC>				
1. Assist a call s	et up to UNI at SPB.			
	onference from SPA to SPB			
	conferees to the established		bscriber at SPB by se	ndina him/her
	dded" in the CPG.	······································		3
	dropped party at SPB.			
	ce is released by call clearin	ng by the served user at S	PA.	
TSS CONF/	TP ISS_I_10_11	ISUP'97 reference 1.5.2.1.2/Q.734 [29]	Selection expression Local AND PICS A.13/1	Q.788 [38] reference None
---	--	---	---	---------------------------------
Test purpose				
Adding of conferees fail	s (unsuccessful)			
	edure of adding conferees fail			tate and
notifications never be se	ent to the affected nor to the r	non-affected remote parti	es.	
NOTE: The procedur	e of adding fails, e.g. becaus	e the maximum conferer	nce participants is exce	eded.
Pre-test conditions				
SPC SE		r has subscribed to CON SPA	F supplementary servi	ce.
>	1 1 1			
<acm< td=""><td>2</td><td></td><td></td><td></td></acm<>	2			
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<cpg(hold)< td=""><td></td><td>(001)</td><td></td><td></td></cpg(hold)<>		(001)		
	-	(CR1)->IA		
		ting <ac< td=""><td></td><td></td></ac<>		
		nect <an check communicatio</an 		
(CDC (conf. oct.)		begC)->CPG(con		
<-CPG(conf est)-			.pty add)>	
REPEAT for each ne	oint there are 3 confe	erees in conterence		
	setup> x=2,3.	n: n - mavimum nu	mbor of conforce	- 0
<acm< td=""><td></td><td>. III – maximum IIu</td><td>INDEL OF CONFELEES</td><td>5-2</td></acm<>		. III – maximum IIu	INDEL OF CONFELEES	5-2
<anm< td=""><td>2</td><td></td><td></td><td></td></anm<>	2			
<cpg(conf est)-<="" td=""><td></td><td> CDC (oth</td><td>pty add)></td><td></td></cpg(conf>		CDC (oth	pty add)>	
<cpg(coiii esc)-<="" td=""><td>disc></td><td>==CPG(0011</td><td>pry aud/></td><td></td></cpg(coiii>	disc>	==CPG(0011	pry aud/>	
<cpg(oth add)-<="" ptv="" td=""><td>(cicz) z=1,2n-1</td><td></td><td></td><td></td></cpg(oth>	(cicz) z=1,2n-1			
	conferee (maximum nu	mber of conferees	exceeded):	
	setup> x=n+1		,	
<acm< td=""><td>-</td><td></td><td></td><td></td></acm<>	-			
<anm< td=""><td>0</td><td></td><td></td><td></td></anm<>	0			
	<fac(addc)< td=""><td></td><td></td><td></td></fac(addc)<>			
REL>				
<rlc< td=""><td></td><td></td><td></td><td></td></rlc<>				
Release conference				
<rel(cicy)< td=""><td></td><td>lisc>REL</td><td>></td><td></td></rel(cicy)<>		lisc>REL	>	
RLC>	_ '	<rlc< td=""><td></td><td></td></rlc<>		
	set up to UNI at SPB.			
	onference from SPA to SPB.	and an and a stift in a		us alius au la iuse /la c ::
 Add two new "other party a 	conferees to the established dded" in the CPG.	conference and notify su	ubscriber at SPB by se	naing nim/ner
	ce is released by call clearing	g by the served user at S	PA.	

TSS CONF/	TP ISS_I_10_12	ISUP'97 reference 1.5.2.1.2/Q.734 [29]	Selection expression Local AND PICS A.13/1	Q.788 [38] reference None
Test purpose				
	splitting, disconnection of a pedures to isolate a party, rea			rminato
	concerned call remains in the			
nor to the non-affected r		le previous state and not		
	e of reattachment fails, e.g.	because the party was po	t formerly isolated	
Pre-test conditions	e el reallaciment faile, e.g.	booldoo ino party wao ne		
	UT such that the served use	er has subscribed to CON	F supplementary service	ce.
SPC SP		SPA	SPB	
>	setup(CR2)->			
<acm< td=""><td><alerting< td=""><td></td><td></td><td></td></alerting<></td></acm<>	<alerting< td=""><td></td><td></td><td></td></alerting<>			
<anm< td=""><td><connect< td=""><td></td><td></td><td></td></connect<></td></anm<>	<connect< td=""><td></td><td></td><td></td></connect<>			
<cpg(hold)< td=""><td><info< td=""><td></td><td></td><td></td></info<></td></cpg(hold)<>	<info< td=""><td></td><td></td><td></td></info<>			
		o(CR1)->IA	M>	
<alerting <-<="" td=""><td>ACM</td><td></td><td></td><td></td></alerting>	ACM			
	<c01< td=""><td>nnect <an< td=""><td>M</td><td></td></an<></td></c01<>	nnect <an< td=""><td>M</td><td></td></an<>	M	
		check communication		
		(begC)->CPG(con		
<-CPG(conf est)-		CPG(oth	pty add)>	
IAM(cic2)>				
<acm< td=""><td>5</td><td></td><td></td><td></td></acm<>	5			
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<-CPG(conf est)-		CPG(oth	pty add)>	
	disc>			
<cpg(oth add)-<="" pty="" td=""><td></td><td></td><td></td><td></td></cpg(oth>				
Try to reattach a	party who hasn't been fac(1	reattach)->		
<rel(cic1)< td=""><td>(</td><td>disc>RE</td><td>T></td><td></td></rel(cic1)<>	(disc>RE	T>	
>RLC>		<rl< td=""><td></td><td></td></rl<>		
<rel(cic2)< td=""><td></td><td></td><td>•</td><td></td></rel(cic2)<>			•	
RLC>				
1. Assist a call s	et up to UNI at SPB.			
	onference from SPA to SPB.			
3. Add two new	conferees to the established	conference and notify su	ubscriber at SPB by ser	nding him/her
	dded" in the CPG.	,	5	0
	ce is released by call clearin	g by the served user at S	PA.	
	sage with "reattached" shou			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CONF/	ISS_V_10_13	1.5.2.2.1, 1.5.2.3.1, 1.5.2.4.1/Q.734 [29]	expression (IntermE OR DLE)	reference None
			AND PICS A.13/1	
Test purpose				
Notification procedure s		a de a la activita al la adifica a dia a		
	n successfully transfer/delive	er the required notification	is in/from the CPG mes	sage.
Case a) SPC	SPA SPB			
	SPA SPB			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	jing tone			
	<pre>ANM</pre>			
check c	communication			
CPG>	CPG>			
CPG>	CPG>			
check confer	ence communication			
	CPG>			
	CPG>			
	CPG>			
	ence communication			
	<rel< td=""><td></td><td></td><td></td></rel<>			
>	RLC>			
1 Acciet a call o	set up from SPC to SPB.			
	e notification "conference est	abliched" is received in t	he CPC from confered	at SPC
	tification "other party added"			al SFC.
	tification "isolated" in the CP			
	tification "reattached" in the C			
	tification "other party disconn			
7. Release the c				
Case b)				
access	SPA SPB			
<setup< td=""><td>IAM</td><td></td><td></td><td></td></setup<>	IAM			
alerting	>ACM>			
	ng tone			
	>ANM>			
check comm				
-	<cpg< td=""><td></td><td></td><td></td></cpg<>			
-	- <cpg< td=""><td></td><td></td><td></td></cpg<>			
	<pre>rence communication</pre>	•		
1	CPG			
=	CPG			
-	rence communication			
	- <rel< td=""><td>-</td><td></td><td></td></rel<>	-		
	>RLC>			
1. Assist a call s	set up from SPC to SPB.			
	fication "conference establish	ned" is received in the CF	PG from conferee at SP	C.
	fication "other party added" in	n the CPG.		
	fication "isolated" in the CPG			
	fication "reattached" in the C			
	fication "other party disconne	ected" in the CPG.		
Release the c	conference.			

TSS CONF/	TP ISS_V_10_14	ISUP'97 reference 1.6.15/Q.734 [29]	Selection expression Local AND PICS A.13/1	Q.788 [38] reference None
Test purpose				•
Interaction with HOLD - I	held user added to confere	ence		
		er put on hold and subsequ	ently added to a conf	erence call, but
	onference established" no			
	ld send the CPG with the g	generic notification indication	ator set to "conference	e established" to
the held user.				
Pre-test conditions				
		ser has subscribed to CON		entary services.
SPC SP.		SPA	SPB	
IAM>	± ()			
<acm< td=""><td>5</td><td></td><td></td><td></td></acm<>	5			
< ANM				
<cpg(hold)< td=""><td></td><td></td><td></td><td></td></cpg(hold)<>				
		up(CR1)->IA		
		erting <ac< td=""><td></td><td></td></ac<>		
		. check communicatio		
fac(beqC)->		. CHECK Communication		
<-CPG(conf est)-		CPG(oth	pty add)>	
no "retrieve"			pey add/r	
	disc>			
<rel< td=""><td></td><td>lisc>RE</td><td>L></td><td></td></rel<>		lisc>RE	L>	
>RLC>		<rl< td=""><td>C</td><td></td></rl<>	C	
-				
1. Assist a call s	et up to UNI at SPB.			
	nference from SPA to SPE	3.		
3. Add a new co	nferee to the established c	conference and notify subso	riber at SPB by send	ing him/her
"other party ad	dded" in the CPG.			
		ing by the served user at S		
5. Check if "conf	erence established notifica	ation" was received by user	at SPC.	

TSS CONF/	TP ISS_V_10_15	ISUP'97 reference 1.6.15/Q.734 [29]	Selection expression Local	Q.788 [38] reference None
To verify that no hold an conference on hold. Pre-test conditions		conference controller sent to the conferees when ser has subscribed to CON		
SPC SF IAM> <acm <anm <cpg(hold)< td=""><td>A UNI at A setup(CR2)-> <alerting <connect< td=""><td>SPA</td><td>SPB</td><td>services.</td></connect<></alerting </td></cpg(hold)<></anm </acm 	A UNI at A setup(CR2)-> <alerting <connect< td=""><td>SPA</td><td>SPB</td><td>services.</td></connect<></alerting 	SPA	SPB	services.
<-CPG(conf est)- IAM(cic2)> <acm< td=""><td>set <al <c fa <fac(addc) setup(CR3)-> <alerting< td=""><td>up(CR1)->IA erting <ac onnect <an . check communicatio c(begC)->CPG(con CPG(oth</an </ac </td><td>M M n</td><td></td></alerting<></fac(addc) </c </al </td></acm<>	set <al <c fa <fac(addc) setup(CR3)-> <alerting< td=""><td>up(CR1)->IA erting <ac onnect <an . check communicatio c(begC)->CPG(con CPG(oth</an </ac </td><td>M M n</td><td></td></alerting<></fac(addc) </c </al 	up(CR1)->IA erting <ac onnect <an . check communicatio c(begC)->CPG(con CPG(oth</an </ac 	M M n	
<anm <-CPG(conf est)- <cpg(oth add)-<="" pty="" td=""><td><fac(addc) disc></fac(addc) </td><td>CPG(oth</td><td>pty add)></td><td></td></cpg(oth></anm 	<fac(addc) disc></fac(addc) 	CPG(oth	pty add)>	
	inf inf	o(hold)-> o(retr)-> s should be sent in	the network	
<rel(cic1) RLC> <rel(cic2) RLC></rel(cic2) </rel(cic1) 		disc>RE <rl< td=""><td></td><td></td></rl<>		
 Establish a co Add two new "other party a No CPGs shot The conferent 	dded" in the CPG. ould be received by the cor	ed conference and notify sun nferee at SPB. ring by the served user at S		nding him/her

TSS CONF/	TP ISS_V_10_16	ISUP'97 reference 1.6.15/Q.734 [29]	Selection expression Local	Q.788 [38] reference None
To verify that when the I retrieved, the IUT passe affected conferees.	conference put on hold by c UT receives notification fror s on this notification to the s	n a conferee that a call ha		
Pre-test conditions Arrange the data in the I SPC SF IAM> <acm< td=""><td>setup(CR2)-></td><td>er has subscribed to CON SPA</td><td>F and HOLD suppleme SPB</td><td>entary services.</td></acm<>	setup(CR2)->	er has subscribed to CON SPA	F and HOLD suppleme SPB	entary services.
<anm <cpg(hold)< td=""><td><connect <info <ale <co< td=""><td>p(CR1)->IAI rting <aci nnect <ani check communication</ani </aci </td><td>M M n</td><td></td></co<></ale </info </connect </td></cpg(hold)<></anm 	<connect <info <ale <co< td=""><td>p(CR1)->IAI rting <aci nnect <ani check communication</ani </aci </td><td>M M n</td><td></td></co<></ale </info </connect 	p(CR1)->IAI rting <aci nnect <ani check communication</ani </aci 	M M n	
<-CPG(conf est)- IAM(cic2)> <acm <cpg(conf est)<="" td=""><td><fac(addc) setup(CR3)-> <alerting <connect <fac(addc)< td=""><td></td><td>pty add)></td><td></td></fac(addc)<></connect </alerting </fac(addc) </td></cpg(conf></acm 	<fac(addc) setup(CR3)-> <alerting <connect <fac(addc)< td=""><td></td><td>pty add)></td><td></td></fac(addc)<></connect </alerting </fac(addc) 		pty add)>	
<cpg(oth add)-<="" pty="" td=""><td><inf <inf< td=""><td>o(hold) <cpg() o(retr) <-CPG(re s should be sent in</cpg() </td><td>trieve)</td><td></td></inf<></inf </td></cpg(oth>	<inf <inf< td=""><td>o(hold) <cpg() o(retr) <-CPG(re s should be sent in</cpg() </td><td>trieve)</td><td></td></inf<></inf 	o(hold) <cpg() o(retr) <-CPG(re s should be sent in</cpg() 	trieve)	
<rel(cicl) RLC> <rel(cic2) RLC></rel(cic2) </rel(cicl) 		disc>R <r< td=""><td>EL> LC</td><td></td></r<>	EL> LC	
 Establish a co Add two new "other party a 	et up to UNI at SPB. onference from SPA to SPB conferees to the established dded" in the CPG.	d conference and notify su		C
5. Call is retrievenues at SPC 6. No CPGs show	ould be received by the conf	A). retrieval" is sent in the CP eree at SPB.	G (no notification to th	
	ce is released by call clearir ould be received by the conf		PA.	

6.2.11 Explicit call transfer (ECT)

TSS ECT/	TP ISS_V_11_1	ISUP'97 reference 7.5.2.1.1.1 a)/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/1	Q.788 [38] reference None
Test purpose				1
	l sending the additional call	ling party number in the cal	ll transfer number.	
		calling party number in the		en the calling
		n received from the remote		
IUT to the other remote	user in the call transfer nu	umber in either the FAC or	CPG when the call tra	ansfer is
activated.				
Pre-test conditions				
Arrange the data in the I	UT so that the served user	subscribes to HOLD, CW a	and ECT.	
Case a)		· · · ·		
SPC	SPA	SPB		
1 st call	2 nd call			
IAM	·>			
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<cpg< td=""><td>- hold 1st call</td><td></td><td></td><td></td></cpg<>	- hold 1 st call			
	IAM			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
<fac< td=""><td>FAC</td><td>> remote addCgPN :</td><td>in CTNb</td><td></td></fac<>	FAC	> remote addCgPN :	in CTNb	
4 A i - t II t				
1. Assist call set	t up for the 1 call and then	i initiate the 2 nd call at the U SPA) using the number TSI	INIA(IUI).	ahaanal
 Initiate the 1st Assist the 2nd 	call norm SPC to the IUT (he IUT on the 2 nd B-channe	P_IND_A ON THE I D-	channel.
		ServAct: "call transfer" and		
Case b)	inot. call transfer, active,	Servaci. Call transfer and	CTIND - TOF_Gening	<u> </u>
SPC	SPA	SPB		
1 st call	2 nd call	SPD		
IAM				
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<cpg< td=""><td>- hold 1st call</td><td></td><td></td><td></td></cpg<>	- hold 1 st call			
	IAMIAM	->		
	<acm< td=""><td></td><td></td><td></td></acm<>			
<fac< td=""><td>CPG</td><td>-> remote addCgPN in</td><td>CTNb</td><td></td></fac<>	CPG	-> remote addCgPN in	CTNb	
<fac< td=""><td>- <anm< td=""><td></td><td></td><td></td></anm<></td></fac<>	- <anm< td=""><td></td><td></td><td></td></anm<>			
1. Assist call set	t up for the 1 st call and then	i initiate the 2 nd call at the U	JNI A (IUT).	
2. Initiate the 1 st	^t call from SPC to the IUT (SPA) using the number TSI	P_Nb_A on the 1 st B-	channel.
		he IÚT on the 2 nd B-channe		
		fer, active", ServAct: "call tr		

TSS ECT/	TP ISS_V_11_2	ISUP'97 reference 7.5.2.1.1.1 a)/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/1	Q.788 [38] reference None
	d sending the calling party nu able to store the calling par			d from the
	nation is sent by the IUT to the			
Pre-test conditions	IUT so that the served user s	subscribes to HOLD_CW a	and ECT	
Case a)				
SPC 1 st call	SPA 2 nd call	SPB		
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<cpg< td=""><td> hold 1st call</td><td></td><td></td><td></td></cpg<>	hold 1 st call			
	IAM <acm< td=""><td></td><td></td><td></td></acm<>			
<fac< td=""><td><fac< td=""><td></td><td>CTNb</td><td></td></fac<></td></fac<>	<fac< td=""><td></td><td>CTNb</td><td></td></fac<>		CTNb	
 Initiate the 1st Assist the 2nd 	t up for the 1 st call and then i ^t call from SPC to the IUT (S ^t call set up from UNI A to the	PA) using the number TSI e IUT on the 2 nd B-channe	P_Nb_A on the 1 st B-c I.	hannel.
	nNot: "call transfer, active", S	ServAct: "call transfer" and	CTNb - TSP_Nb_C.	
Case b)				
SPC 1 st call	SPA 2 nd call	SPB		
IAM <acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
	IAM <acm< td=""><td></td><td></td><td></td></acm<>			
<fac <fac< td=""><td>CPG</td><td>-> remote CgPN in C1</td><td>IND</td><td></td></fac<></fac 	CPG	-> remote CgPN in C1	IND	
2. Initiate the 1 st	t up for the 1 st call and then i ^t call from SPC to the IUT (S call set up from UNI A to the	PA) using the number TSI	P_Nb_A on the 1 st B-c	hannel.
	ss) with GenNot: "call transfe			SP_Nb_C.

TSS ECT/	TP ISS_V_11_3	ISUP'97 reference 7.5.2.1.1.1 b)/	Selection expression	Q.788 [38] reference
		EN 300 356-14 [16]	Local AND PICS A.14/1	None
Test purpose				
Capability of storing and	l sending the additional conn	ected number in the call	transfer number.	
To verify that the IUT is	able to store the additional c	onnected number in the g	generic number when	the connected
number and the generic	c number have been receive	ed from the remote user.	This information is sen	t by the IUT to
the other remote user in	the call transfer number in	either the FAC or CPG v	when the call transfer is	activated.
Pre-test conditions				
Arrange the data in the I	IUT so that the served user s	ubscribes to HOLD and E	ECT.	
Case a)				
SPC	SPA SPE	3		
1 st call	2 nd call			
<iam< td=""><td>· _</td><td></td><td></td><td></td></iam<>	· _			
ACM	·>			
ANM	·>			
<cpg< td=""><td>- hold 1st call</td><td></td><td></td><td></td></cpg<>	- hold 1 st call			
	>IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
<fac< td=""><td>FAC></td><td>remote addConNb in</td><td>CTNb from UNI at</td><td>SPC</td></fac<>	FAC>	remote addConNb in	CTNb from UNI at	SPC
1. Initiate 2 calls	from the UNI A (IUT).			
2. Assist 1 st call	set up on the left side (SPC)).		
	I set up on the right side (SP			
4. FAC with Ger	nNot: "call transfer, active", S	ervAct: "call transfer" and	d CTNb - TSP_GenNb_	_C.
Case b)				
SPC	SPA SPB			
1 st call	2 nd call			
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
ACM	·>			
ANM	·>			
<cpg< td=""><td>- hold 1st call</td><td></td><td></td><td></td></cpg<>	- hold 1 st call			
	>IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
<fac< td=""><td>CPG></td><td>remote addConNb in</td><td>CTNb from UNI at</td><td>SPC</td></fac<>	CPG>	remote addConNb in	CTNb from UNI at	SPC
<fac< td=""><td>ANM</td><td></td><td></td><td></td></fac<>	ANM			
1. Initiate 2 calls	from the UNI A (IUT).			
	set up on the left side (SPC)			
	I set up on the right side (SP			
	ss) with GenNot: "call transfe		ransfer" and CTNh - TS	SP GenNh C

TSS ECT/	TP ISS_V_11_4	ISUP'97 reference 7.5.2.1.1.1 b)/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/1	Q.788 [38] reference None
To verify that the IUT is	I sending the connected num able to store connected num sent by the IUT to the other fer is activated.	mber when only this COL	has been received from	
Pre-test conditions Arrange the data in the I	UT so that the served user s	subscribes to HOLD and E	ECT.	
SPC 1 st call <iam< td=""><td></td><td>SPB</td><td></td><td></td></iam<>		SPB		
ANM> <cpg< td=""><td></td><td></td><td>IND from UNI at S</td><td>PC</td></cpg<>			IND from UNI at S	PC
 Assist 1st call Assist 2nd call 	from the UNI A (IUT). set up on the left side (SPC) set up on the right side (SP Not: "call transfer, active", S	В).	I CTNb - TSP_Nb_C.	
Case b) SPC 1 st call <iam ACM <cpg< td=""><td>SPA 2nd call - > > - hold 1st call IAM></td><td>SPB</td><td></td><td></td></cpg<></iam 	SPA 2 nd call - > > - hold 1 st call IAM>	SPB		
	<acm CPG> - <anm< td=""><td>• remote ConNb in C</td><td>INb from UNI at S</td><td>PC</td></anm<></acm 	• remote ConNb in C	INb from UNI at S	PC
 Assist 1st call Assist 2nd call 	from the UNI A (IUT). set up on the left side (SPC) set up on the right side (SP ss) with GenNot: "call transfe	B).	ansfer" and CTNb - TS	SP_Nb_C.

TSS ECT/	TP ISS_V_11_5	ISUP'97 reference 7.5.2.1.1.2.1/	Selection expression	Q.788 [38] reference
		EN 300 356-14 [16]	Local AND PICS A.14/2	None
Test purpose				
Loop prevention proced				
	xchange controlling the EC			
. .	prevention indicator set to	"request" and with call tra	anster reterence for b	oth calls.
Pre-test conditions			-07	
	IUT so that the served user		-01.	
SPC 1 st call	SPA 2 nd call	SPB		
I Call <tam< td=""><td></td><td></td><td></td><td></td></tam<>				
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
ANM				
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
	IAMIAM	>		
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
<lop< td=""><td>LOP</td><td>></td><td></td><td></td></lop<>	LOP	>		
LOP	-> <lop< td=""><td></td><td></td><td></td></lop<>			
<fac< td=""><td>FAC</td><td>></td><td></td><td></td></fac<>	FAC	>		
	s from the UNI A (IUT).			
	set up on the left side (SPC			
 Assist 2nd cal 	I set up on the right side (SI	PB).		
	e received CTRef with "no I	oop exists" indication.		
FAC activatin	g the ECT service.			

э. FAC activating the Э

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
ECT/	ISS_V_11_6	7.5.2.1.1.2.1/	expression	reference
		EN 300 356-14 [16]	Local AND PICS A.14/2	None
Test purpose				
Loop prevention proced	lure - successful response			
To verify that the local e	exchange controlling the EC	T can successfully perform	n a call transfer if a LC)P with loop
prevention indicator s	et to "response" is received	and "no loop exists", and t	he call identity match	es the one used
by the IUT.				
Pre-test conditions				
Arrange the data in the	IUT so that the served user	subscribes to HOLD and E	ECT.	
SPC	SPA	SPB		
1 st call	2 nd call			
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
ACM	->			
ANM	->			
<cpg< td=""><td> hold 1st call</td><td></td><td></td><td></td></cpg<>	hold 1 st call			
	IAM	>		
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
<lop< td=""><td>LOP</td><td>></td><td></td><td></td></lop<>	LOP	>		
LOP	-> <lop< td=""><td></td><td></td><td></td></lop<>			
<fac< td=""><td>FAC</td><td>></td><td></td><td></td></fac<>	FAC	>		
1. Initiate 2 call	s from the UNI A (IUT).			
2. Assist 1 st cal	I set up on the left side (SPO			
3. Assist 2 nd ca	Il set up on the right side (S	PB).		
4. Send back th	ne received CTRef with "no l	loop exists" indication.		

TSS	ТР	ISUP'97 reference	Selection	0 700 [20]
ECT/	ISS I 11 7	7.5.2.1.1.2.1/	expression	Q.788 [38] reference
2017	133_1_11_7	EN 300 356-14 [16]	Local AND	None
		EN 300 336-14 [16]	PICS A.14/2	None
Toot purpose			FICO A. 14/2	
Test purpose	ure - wrong call transfer iden	tity ignored		
	xchange controlling the ECT		loop prevention indi	cator set to
	exists", if the call transfer id			
Pre-test conditions		entity does not match the	one used by the for.	
	IUT so that the served user s	subscribes to HOLD and E	ест	
SPC	SPA	SPB	_01.	
1 st call	2 nd call	SED		
<tam< td=""><td></td><td></td><td></td><td></td></tam<>				
ACM				
ANM				
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
	IAM	>		
	<acm< td=""><td>_</td><td></td><td></td></acm<>	_		
	<anm< td=""><td>-</td><td></td><td></td></anm<>	-		
<lop< td=""><td>LOP></td><td></td><td></td><td></td></lop<>	LOP>			
	<lop< td=""><td>- (to be disregarde</td><td>d)</td><td></td></lop<>	- (to be disregarde	d)	
LOP	-> <lop< td=""><td>-</td><td></td><td></td></lop<>	-		
<fac< td=""><td>FAC></td><td>></td><td></td><td></td></fac<>	FAC>	>		
	from the UNI A (IUT).			
2. Assist 1 st call	set up on the left side (SPC).		
 Assist 2nd cal 	I set up on the right side (SP	В).		
Send back ar	altered (incremented) CTR	ef with "no loop exists" inc	dication, to be disregare	ded.
5. Send back th	e received CTRef with "no lo	oop exists" indication.		
FAC activatin	g the ECT service.			

TSS **ISUP'97** reference Selection Q.788 [38] TP reference ECT/ ISS_I_11_8 7.5.2.1.1.2.1/ expression EN 300 356-14 [16] Local AND None **PICS A.14/2** Test purpose Loop prevention procedure - unsuccessful (loop exists) To verify that the local exchange controlling the ECT rejects the call transfer if the LOP is received with loop prevention indicator set to "request" and the call transfer reference matches the one used by the IUT. Pre-test conditions Arrange the data in the IUT so that the served user subscribes to HOLD and ECT. SPC SPB SPA 2^{nd} call 1st call <----IAM---------->ACM----> ---->ANM----> <----- hold 1st call ----->IAM----> <----ACM-----<----ANM----------LOP----------LOP-----> -----LOP-----> <----LOP------ (received messages are returned) -----REL----> <----REL----------RLC-----> <----RLC------Initiate 2 calls from the UNI A (IUT). 1. Assist 1st call set up on the left side (SPC). Assist 2nd call set up on the right side (SPB). 2. 3. 4. Send back the received CTRef with LOPInd "request" (identical to the one received). 5. Call is rejected.

TSS ECT/	TP ISS_V_11_9	ISUP'97 reference 7.5.2.1.1.2.1; 7.6.2/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/2	Q.788 [38] reference None
To verify that the local e prevention indicator se Pre-test conditions	ure - unsuccessful (interacti xchange controlling the EC et to "response" and "simulta UT so that the served user	Γ rejects the call transfer if aneous transfer" in case o	f interaction with ECT.	ith loop
LOP <rel< td=""><td>></td><td>- - > - (`simultaneous tr ></td><td>ansfer')</td><td></td></rel<>	>	- - > - (`simultaneous tr >	ansfer')	
 Assist 1st call Assist 2nd call 	from the UNI A (IUT). set up on the left side (SPC set up on the right side (SF e received CTRef with LOP ected.	Ρ̈́B).	ultaneous transfer".	

TSS ECT/	TP ISS_V_11_10	ISUP'97 reference 7.5.2.1.1.2.1/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/2 AND PICS A.14/8	Q.788 [38] reference None
To verify that the local e prevention indicator se Pre-test conditions	ure - unsuccessful (interword xchange controlling the ECT et to "response" and "insuffic IUT so that the served user s	rejects the call transfer in cient information" from e.g	 interworking situations 	
LOP>	>	- - > (`insufficient inf >	ormation')	
 Assist 1st call Assist 2nd call 	s from the UNI A (IUT). set up on the left side (SPC I set up on the right side (SP e received CTRef with LOPI ed.	Ρ̈́B).	ufficient information".	

TSS ECT/	TP ISS_V_11_11	ISUP'97 reference 7.5.2.1.1.2.1/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/2 AND PICS A.14/9	Q.788 [38] reference None
Test purpose		· · · ·		
	lure - successful (interworkin			
	exchange controlling the ECT			
	et to "response" and "insuffic	cient information" from e.g	. Interworking situation	S.
Pre-test conditions			- 0 -	
	IUT so that the served user		-CT.	
SPC	SPA	SPB		
1 st call	2 nd call			
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
ACM				
ANM				
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
	IAM			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	LOP			
	-> <lop< td=""><td></td><td>formation')</td><td></td></lop<>		formation')	
<fac< td=""><td>FAC</td><td>></td><td></td><td></td></fac<>	FAC	>		
1. Initiate 2 calls	s from the UNI A (IUT).			
	set up on the left side (SPC			
 Assist 2nd cal 	I set up on the right side (SF	РВ).		
4. Send back th	e received CTRef with LOPI	nd "response" set to "insu	ifficient information".	
FAC activatir	ig the ECT service.	-		

TSS ECT/	TP ISS_V_11_12	ISUP'97 reference 7.5.2.1.1.2.1/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/2 AND PICS A.14/4	Q.788 [38] reference None
Test purpose	ure - unsuccessful on timer e	avnin		
	xchange controlling the ECT		f no I OP is received wi	thin T rat expire
Pre-test conditions				
	IUT so that the served user s	subscribes to HOLD and I	ECT.	
SPC	SPA	SPB		
1 st call	2 nd call			
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
ACM	->			
ANM				
<cpg< td=""><td>- hold 1st call</td><td></td><td></td><td></td></cpg<>	- hold 1 st call			
	IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	LOP>			
	esponse is sent, TECT	-		
	REL> -> <rlc></rlc>			
KLC	-> <ktc< td=""><td>-</td><td></td><td></td></ktc<>	-		
	from the UNI A (IUT).			
	set up on the left side (SPC)).		
 Assist 2nd cal 	I set up on the right side (SP	B).		
Call is rejected	ed.			

TSS ECT/	TP ISS_V_11_13	ISUP'97 reference 7.5.2.1.1.2.1/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/2 AND PICS A.14/5	Q.788 [38] reference None
To verify that the local e expiry Pre-test conditions	lure - successful on timer exp xchange controlling the ECT	completes the call transf		d within T _{ECT}
SPC 1 st call <acm ANM <cpg <cpg NO LOP re</cpg </cpg </acm 	-> -> hold 1 st call IAM> <acm< td=""><td>SPB expires</td><td></td><td></td></acm<>	SPB expires		
 Assist 1st call Assist 2nd cal TECT expired FAC activation 	s from the UNI A (IUT). set up on the left side (SPC) I set up on the right side (SP d, release the call. Ig the ECT service. Ild not be released.			

TSS ECT/	TP ISS_V_11_14	ISUP'97 reference 7.5.2.1.1.2.2 a)/ EN 300 356-14 [16]	Selection expression Local	Q.788 [38] reference None
To verify that the local e. generic notification set to "call transfer". Pre-test conditions	eneric notification sent to the xchange controlling the ECT t to "call transfer, active" or " UT so that the served user s	can successfully initiate call transfer, alerting" and	the service activatio	
Case a) SPC 1 st call IAM	SPA 2 nd call >	SPB		
<anm <cpg< td=""><td>-</td><td></td><td></td><td></td></cpg<></anm 	-			
1.Assist call set2.Initiate the 1st3.Assist 2nd call	active < > call up for the 1 st call and then in call set up on the left side (S set up on the right side (SP	. transfer, active nitiate the 2 nd call at the U SPC). B).	NI A (IUT).	
4. FAC with Ger Case b) SPC 1 st call IAM <acm< td=""> <cpg< td=""></cpg<></acm<>	-	nd ServAct: "call transfer"		
<fac > call transfer, a</fac 	IAM> <acm CPG> lerting < call <anm< td=""><td>transfer, active</td><td></td><td></td></anm<></acm 	transfer, active		
 Initiate the 1st Assist 2nd call 	up for the 1 st call and then ir call set up on the left side (S set up on the right side (SP ss) with GenNot: "call transfe	SPC). B).	NI A (IUT).	

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
ECT/	ISS_V_11_15	7.5.2.1.1.2.2 a)/	expression	reference
		EN 300 356-14 [16]	Local	None
Test purpose				
Call progress message	with generic notification sent	to the remote user		
	exchange (controlling the EC			
the generic notification	n set to "call transfer, active"	and the service activation	on parameter set to "ca	Ill transfer".
Pre-test conditions				
	IUT so that the served user s		ECT.	
SPC	SPA	SPB		
1 st call	2 nd call			
IAM				
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<cpg< td=""><td>mora r oarr</td><td></td><td></td><td></td></cpg<>	mora r oarr			
	IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	erting > call transf			
	- <anm< td=""><td></td><td></td><td></td></anm<>			
call transfer, a		-		
Call transfer, a	ective			
1. Assist call set	tup for the 1 st call and then ir	nitiate the 2 nd call at the U	NI A (IUT).	
	^t call set up on the left side (S		· · /	
	I set up on the right side (SP			
	ss) with GenNot: "call transfe		all transfer".	

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
ECT/	ISS_V_11_16	7.5.2.1.1.2.2 b)/ EN 300 356-14 [16]	expression Local	reference None
Test purpose				
Facility message send u	pon receipt of the ANM whe	n the ECT is invoked whil	e one call is alerting	
To verify that, in case th	e ECT is invoked while one of	call is alerting, as soon as	the local exchange (c	ontrolling the
ECT) receives the ANM	, it can successfully send to t	the other remote user the	FAC with service acti	vation set to
"call transfer" and the ge	eneric notification set to "ca	all transfer, active".		
Pre-test conditions				
Arrange the data in the I	UT so that the served user s	subscribes to HOLD and E	ECT.	
SPC	SPA	SPB		
1 st call	2 nd call			
IAM				
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<cpg< td=""><td>mora r oarr</td><td></td><td></td><td></td></cpg<>	mora r oarr			
	IAM			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	CPG			
-	erting call trans			
-	ANM			
> call transfer,	active <			
	st u st u	where and the set of	N (11 1 -1)	
	tup for the 1 st call and then ir		NI A (IUT).	
	call set up on the left side (S			
	I set up on the right side (SP			
 CPG (progres) 	ss) with GenNot: "call transfe	er, active".		

TSS ECT/	TP ISS_V_11_17	ISUP'97 reference 7.5.2.1.1.2.2 b)/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/1	Q.788 [38] reference None
<i>invoked while one call is</i> To verify that, in case th receipt of the ANM conv	s <i>alerting</i> e ECT is invoked while one reys the call transfer num l	nber in the call transfer num e call is alerting, the FAC se ber parameter with the info and an additional connecte	ent to the other remote rmation received in the	user upon e generic
		subscribes to HOLD and E	ECT.	
SPC 1 st call	SPA 2 nd call	SPB		
IAM				
ACM				
ANM				
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
	IAM	->		
	<acm< td=""><td></td><td></td><td></td></acm<>			
<fac< td=""><td>CPG</td><td>-></td><td></td><td></td></fac<>	CPG	->		
<fac< td=""><td> <anm< td=""><td></td><td></td><td></td></anm<></td></fac<>	<anm< td=""><td></td><td></td><td></td></anm<>			
remote addConNb in	CTNb from UNI at SI	2B		
 Assist 1st call Assist 2nd call 	s from the UNI A (IUT). set up on the left side (SP I set up on the right side (S ss) with GenNot: "call trans	PB).		

TSS ECT/	TP ISS_V_11_18	ISUP'97 reference 7.5.2.1.1.2.2 b)/ EN 300 356-14 [16]	Selection expression Local AND PICS A.14/1	Q.788 [38] reference None
one call is alerting To verify that, in case th receipt of the ANM conv number parameter if on Pre-test conditions	e connected number in the ca e ECT is invoked while one o reys the call transfer numbe ly the connected number is	call is alerting, the FAC seen parameter with the info	ent to the other remote rmation received in the	user upon
SPC 1 st call <iam ACM <cpg <fac <fac< td=""><td>·> ·></td><td>SPB</td><td></td><td></td></fac<></fac </cpg </iam 	·> ·>	SPB		
 Assist 1st call Assist 2nd call 	s from the UNI A (IUT). set up on the left side (SPC) I set up on the right side (SP ss) with GenNot: "call transfe	B).		

TSS ECT/	TP ISS_V_11_19	ISUP'97 reference 7.4; 7.5.2.2.1; 7.5.2.3.1; 7.5.2.4.1/ EN 300 356-14 [16]	Selection expression IntermE AND PICS A14/2	Q.788 [38] reference None
To verify that the exchange	information of the loop preve nge can successfully pass or elated to the call transfer serv	n the loop prevention inc		Insfer
<acm <anm LOP <lop< td=""><td>SPA SPA -> IAM ACM -> LOP -> LOP -> </td><th> -></th><td></td><td></td></lop<></anm </acm 	SPA SPA -> IAM ACM -> LOP -> LOP ->	 ->		
2. Send back th	from the UNI at SPC. e received CTRef with "no lo g the ECT service.	op exists" indication.		

	TSS ECT/	TP ISS_V_11_20	ISUP'97 reference 7.4; 7.5.2.2.1; 7.5.2.3.1; 7.5.2.4.1/ EN 300 356-14 [16]	Selection expression IntermE	Q.788 [38] reference None
Test purp	ose				•
		information in the FAC or			
			s on the access transport a	nd the generic notifie	cation indicator
		ed to the call transfer serv	/ice.		
Case a)					
SPC		SPA	SPB		
		>IAM			
-		- <acm< td=""><td></td><td></td><td></td></acm<>			
-		- <anm< td=""><td></td><td></td><td></td></anm<>			
			> call transfer, a		
			> sub-address in A		
<	FAC	- <fac< td=""><td> sub-address in A</td><td>TP from UNI at E</td><td>•</td></fac<>	sub-address in A	TP from UNI at E	•
1.			at SPC will initiate call trans	sfer.	
2.		Not: "call transfer, active			
3.		address from UNI at SPE,	, beyond SPC.		
4.		dress of UNI at SPB.			
Case b) SPC					
		SPA >TAM	SPB		
		<pre>- <acm< pre=""></acm<></pre>			
-			> call transfer, a	ative	
		<pre>CPG</pre>		CLIVE	
-			> sub-address in A	TP from IINI at F	1
			sub-address in A		
1.	Initiate a call	from the UNI at SPC. UNI	at SPC will initiate call trans	sfer.	
2.		nNot: "call transfer, active			
3.		address from UNI at SPE			

TSS ECT/	TP ISS_V_11_21	ISUP'97 reference 7.3; 7.5.2.3.1; 7.5.2.4.1/ EN 300 356-14 [16]	Selection expression Gateway AND PICS A.14/6	Q.788 [38] reference None
	nge removes the call trans	sfer number in the FAC or (tricted" and there is no bilate	CPG before sending it	to the next
<acm <anm< td=""><td>SPA IAM <acm <anm ->FAC</anm </acm </td><td></td><td></td><td></td></anm<></acm 	SPA IAM <acm <anm ->FAC</anm </acm 			
	from the UNI at SPC. UNI an Not: "call transfer, active"	at SPC will initiate call trans and CTNb removed.	fer.	
SPC IAM <acm CPG</acm 	SPA ->IAM - <acm ->CPG - <anm< td=""><td> > CTNb removal</td><td></td><td></td></anm<></acm 	 > CTNb removal		
	from the UNI at SPC. UNI ss) with GenNot: "call trans	at SPC will initiate call trans fer, active" and no CTNb.	fer.	

TSS ECT/	TP ISS_V_11_22	ISUP'97 reference 7.3; 7.5.2.3.1/ EN 300 356-14 [16]	Selection expression OutIE	Q.788 [38] reference None
Test purpose Call transfer number - c	onversion to international nu			
	nverts the call transfer nu		at. The nature of addre	ss indicator
Case a)				
SPC	SPA	SPB		
IAM	->IAM	>		
<acm< td=""><td> <acm< td=""><td>-</td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td>-</td><td></td><td></td></acm<>	-		
<anm< td=""><td> <anm< td=""><td>_</td><td></td><td></td></anm<></td></anm<>	<anm< td=""><td>_</td><td></td><td></td></anm<>	_		
FAC	->FAC	> CTNb converted to	international fo	rmat
1. Initiate a call	from the UNI at SPC. UNI a	t SPC will initiate call trans	sfer.	
FAC with Ger	nNot: "call transfer, active" a	and international CTNb.		
Case b)				
SPC	SPA	SPB		
IAM	->IAM	>		
<acm< td=""><td> <acm< td=""><td>-</td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td>-</td><td></td><td></td></acm<>	-		
CPG	->CPG	> CTNb converted to	international fo	rmat
<anm< td=""><td> <anm< td=""><td>-</td><td></td><td></td></anm<></td></anm<>	<anm< td=""><td>-</td><td></td><td></td></anm<>	-		
	from the UNI at SPC. UNI a		sfer.	
CPG with Ge	nNot: "call transfer, active" a	and international CTNb.		

TSS ECT/	TP ISS_V_11_23	ISUP'97 reference 7.3; 7.5.2.4.1/	Selection expression	Q.788 [38] reference
		EN 300 356-14 [16]	InclE	None
Test purpose				
Call transfer number - r	emoval of own country code			
To verify that the IUT re	moves the country code in th	e address signals of the	call transfer number i	f it is the
	code. The nature of address i			
Case a)				
SPC	SPA S	SPB		
IAM	->IAM	->		
<acm< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td></td><td></td><td></td></acm<>			
<anm< td=""><td> <anm< td=""><td></td><td></td><td></td></anm<></td></anm<>	<anm< td=""><td></td><td></td><td></td></anm<>			
FAC	->FAC	-> CTNb converted t	o national format	
1. Initiate a call	from the UNI at SPC. UNI at	SPC will initiate call trans	sfer.	
2. FAC with Ge	nNot: "call transfer, active" a	nd national (significant) C	TNb.	
Case b)				
SPC	SPA S	SPB		
IAM	->IAM	->		
<acm< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td></td><td></td><td></td></acm<>			
CPG	->CPG	-> CTNb converted t	o national format	
	<anm< td=""><td></td><td></td><td></td></anm<>			
1. Initiate a call	from the UNI at SPC. UNI at	SPC will initiate call trans	sfer.	
	nNot: "call transfer, active" a			

TSS ECT/	TP ISS_V_11_24	ISUP'97 reference 7.5.2.1.1.3 a)/ EN 300 356-14 [16]	Selection expression Local AND BCall PICS A.13/11 AND BCall PICS A.13/13	Q.788 [38] reference None
total propagation delay f information to be summe call history information	xchange (controlling the EC for the two legs of the call to ed is received in the propag n of the ANM/CON for outgo	be transferred requires u ation delay counter of the sing calls.	sage of echo control de	vices. The
NOTE: The used PIC	S are defined for the basic of	call (BCall).		
SPC 1 st call IAM(PDC=50) <acm <anm <cpg< td=""><th></th><td>SPB >) ></td><td></td><th></th></cpg<></anm </acm 		SPB >) >		
 Initiate the 1st stimulus IAM table. Assist the 2nd Send an ANM FAC with Gen two routes we (both incomin 	tup for the 1 st call and then in call from SPC to the IUT (S contains an initial propagation call set up from UNI A to the with Call history information Not: "call transfer, active". To buld require echo controlling g/outgoing at the local excha-	PA) using the number TS on delay value of e.g. 50 e IUT on the 2 nd B-channe n of e.g. 50 ms. The sum (in this case 100 devices. Are echo contro ange) or is some better p	P_Nb_A on the 1 st B-cl ms. The actual value is el. ms) of the propagation I devices enabled for th	stored in PIXIT delays on the
6. For further st	udy,(see also CONF test cas	se ISS_10_1).		

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]		
ECT/	ISS V 11 25	7.7/	expression	reference		
		EN 300 356-14 [16]	IWorkE AND	None		
			PICS A.14/7			
Test purpose						
Loop prevention proced	ure - Interworking with protoc	cols not supporting loop p	revention			
To verify that the IUT is	able to support call control in	terworking between ISU	P'97and protocols not s	supporting the		
loop prevention procedu	re, and return a LOP (respon	nse) message with the inc	dication "insufficient inf	ormation" in		
response to a LOP (requ	uest) message.	-				
SPC	SPA	SPB				
<iai< td=""><td>- <iam< td=""><td></td><td></td><td></td></iam<></td></iai<>	- <iam< td=""><td></td><td></td><td></td></iam<>					
ACM	>ACM	->				
ANC	>ANM	->				
	<lop< td=""><td></td><td></td><td></td></lop<>					
	LOP	->				
	<fac< td=""><td>- (PICS $A.14/9 = Y$</td><td>ES)</td><td></td></fac<>	- (PICS $A.14/9 = Y$	ES)			
:						
	OF	-				
<ccl< td=""><td>- <rel< td=""><td>- (PICS A.14/9 = N</td><td>0)</td><td></td></rel<></td></ccl<>	- <rel< td=""><td>- (PICS A.14/9 = N</td><td>0)</td><td></td></rel<>	- (PICS A.14/9 = N	0)			
	et up from the UNI at SPB o	n a non-ISUP route.				
	ES to PICS question A.14/8)					
6. See also ECT	test cases ISS_V_11_10 a	nd ISS_V_11_11.				

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]		
ECT/	ISS_V_11_26	7.7/	expression	reference		
		EN 300 356-14 [16]	IWorkE	None		
Test purpose						
	Notification - Interworking with protocols not supporting the notification mechanism or the simple service activation					
procedure						
To verify that the exchar	nge discards the FAC (alway	rs) and the CPG (if receive	ed during alerting) and	successfully		
completes the call trans	fer.					
Case a)						
	SPA	SPB				
	<iam< td=""><td></td><td></td><td></td></iam<>					
	>ACM					
ANC	>ANM					
	<fac< td=""><td> call transfer, a</td><td>active</td><td></td></fac<>	call transfer, a	active			
	et up from the UNI at SPB o					
	th GenNot: "call transfer, act	IVe".				
3. The call shou	la complete.					
Case b) SPC non-ISUP	SPA	SPB				
	SPA <iam< td=""><td></td><td></td><td></td></iam<>					
	ACM					
ACM		call transfer, a	active			
ANC	ANM		active			
AIVC		-				
1. Assist a call s	set up from the UNI at SPB o	n a non-ISUP route				
	ith GenNot: "call transfer, act					
3. The call shou						

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
ECT/	ISS_V_11_27	7.6.13.1/	expression	reference
		EN 300 356-14 [16]	Local	None
Test purpose				
ECT - Interaction with U				
	is invoked while a remote us		ng exchange discards	the user-to-
	red in the ANM or in the REL	from that remote user.		
Pre-test conditions				
	UT so that the served user s	subscribes to ECT and UL	JS1.	
Case a)				
SPC 1 st call	SPA 2 nd call	SPB		
Call IM				
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
CFG	IAM (UUInf)	>		
	<acm (uuinf)<="" td=""><td></td><td></td><td></td></acm>			
<fac< td=""><td>· · · ·</td><td></td><td></td><td></td></fac<>	· · · ·			
call transfer, ale	rting call transfer	, active		
	- <anm (uuinf)<="" td=""><td></td><td></td><td></td></anm>			
call transfer, ac	tive			
	up for the 1 st call and then ir		JInf) at the UNI A (IUT).
2. Initiate the 1 st	call set up on the left side (S	SPC).		
	set up on the right side (SP			
	s) with GenNot: "call transfe		a ral a al	
	answered with UUInf in the		arded.	
6. Get the verdic	ct from the access side, "pas	s il oolili discalded.		
SPC	SPA	SPB		
1 st call	2 nd call	DE D		
IAM				
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td>-</td><td></td><td></td><td></td></anm<>	-			
<cpg< td=""><td>- hold 1st call</td><td></td><td></td><td></td></cpg<>	- hold 1 st call			
	IAM (UUInf)-	>		
	<acm (uuinf)-<="" td=""><td></td><td></td><td></td></acm>			
<fac< td=""><td></td><td></td><td></td><td></td></fac<>				
call transfer, ale		-		
	- <rel (uuinf)-<="" td=""><td></td><td></td><td></td></rel>			
RLC	>RLC	>		
	st ust ust	where and the second		~
	up for the 1 st call and then in	nitiate the 2 [™] call (with UU	Jinf) at the UNI A (IUT).
2. Initiate the 1 st	call set up on the left side (S	5PU).		
	set up on the right side (SP			
4. CPG (progres	s) with GenNot:" call transfe released with UUInf in the F	er, active".	dod	
	t from the access side, "pas		ueu.	
6. Get the verdic	β momente access side, pas			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]		
ECT/	ISS_V_11_28	7.6.13.2/	expression	reference		
		EN 300 356-14 [16]	Local	None		
Test purpose				•		
ECT - Interaction with	UUS2					
To verify that if the EC	Γ is invoked while a remote us	ser is alerted, the exchang	ge discards the USR m	nessages		
received after the call t	ransfer invocation until the Al	NM from that remote user	is received.			
Pre-test conditions						
Arrange the data in the	IUT so that the served user s	subscribes to ECT and UL	JS2.			
SPC	SPA	SPB				
1 st call	2 nd call					
IAM						
<acm< td=""><td></td><td></td><td></td><td></td></acm<>						
<anm< td=""><td></td><td></td><td></td><td></td></anm<>						
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>						
	IAM	•				
	<acm< td=""><td></td><td></td><td></td></acm<>					
	<usr< td=""><td></td><td></td><td></td></usr<>					
call transfer, al	erting call transfer	•				
< EAC	- <anm< td=""><td></td><td></td><td></td></anm<>					
call transfer, a		_				
Call Clansier, a	cuive					
1. Assist call s	etup for the 1 st call and then ir	pitiate the 2 nd call (with LI	linf) at the LINILA (ILIT)		
	st call set up on the left side ().		
			anuast			
	ess) with GenNot: "call transfe					
	USR message. The UUInf sl		the access side.			
	lict from the access side, "pas					

TSS ECT/	TP ISS V 11 29	ISUP'97 reference 7.6.13.3/	Selection expression	Q.788 [38] reference
		EN 300 356-14 [16]	Local	None
Test purpose		· · · · ·		
ECT - Interaction v	vith UUS3			
To verify that the e	xchange discards the USR	messages if received after the ca	all transfer invocation	n until the call
transfer is complet	ed, i.e. either FAC is sent to	o the remote users when both ca	Ils are already answe	ered or ANM is
received from a re	mote user when one of the	calls is alerting.		
Pre-test conditions				
Arrange the data in	n the IUT so that the served	l user subscribes to ECT and UU	S3.	
SPC	SPA	SPB		
1 st call	2 nd cal	1		
IAM				
<acm< td=""><th></th><td></td><td></td><td></td></acm<>				
<anm< td=""><th></th><td></td><td></td><td></td></anm<>				
<cpg< td=""><th> hold 1st call</th><td></td><td></td><td></td></cpg<>	hold 1 st call			
	IAM			
USR	<acm< th=""><td></td><td></td><td></td></acm<>			
0.0	> CPG-			
	alerting call tr			
Jail Clansler,		ansier, active		
	> <anm-< th=""><td></td><td></td><td></td></anm-<>			
call transfer,				
sarr cranbrer,	accive			
1. Assist c	all setup for the 1 st call and	then initiate the 2 nd call (with UU	Inf) at the UNLA (IU	Т)
	he 1 st call set up on the left			
3. Assist 2	nd call set up on the right si	de (SPB).		
	rogress) with GenNot: "call			
V		e, "pass" if UUInf discarded.		
NOTE: The first	t part of the purpose has no	of been implemented because the oth calls are answered is too sma		
	nis interval.			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
ECT/	ISS_V_11_30	Figure 7-7/	expression	reference
		EN 300 356-14 [16]	Local AND	None
			PICS A.2/7	
Test purpose				
ECT - Interaction with S	UB			
To verify that if the IUT is	s able to receive and re-send	d the sub-address in the a	access transport para	meter in the
FAC message in either of	direction after activating the o	call transfer service. Thes	se are the calling sub-a	ddress for
incoming calls and the c	onnected sub-address for ou	itgoing calls.		
Pre-test conditions				
Arrange the data in the I	UT so that the served user s	ubscribes to ECT.		
SPC	SPA	SPB		
1 st call	2 nd call			
IAM				
<acm< td=""><td></td><th></th><th></th><th></th></acm<>				
<anm< td=""><td></td><th></th><th></th><th></th></anm<>				
<cpg< td=""><td></td><th></th><th></th><th></th></cpg<>				
	IAM			
	<acm< td=""><th></th><th></th><th></th></acm<>			
	<anm< td=""><th></th><th></th><th></th></anm<>			
<fac< td=""><td></td><th>> call transfer ac</th><th>tivation</th><th></th></fac<>		> call transfer ac	tivation	
<fac< td=""><td>_</td><th></th><th></th><th></th></fac<>	_			
sub-address in AT		P		
from UNI at B	from UNI at C			
	et	nd		
	up for the 1 st call and then in			
2. Initiate the 1 st	call from SPC to the IUT (SI	PA) using the number TS	P_Nb_A on the 1 st B-c	hannel.
	call set up from UNI A to the			
	all by specifying a connected		d sub-address.	
	Not: "call transfer, active', S	ervAct: "call transfer".		
6. Receive sub-	address from UNI at SPC.			

6.2.12 Call diversion (CFB, CFNR, CFU, CD)

CFNR		Call forwarding on no reply	
	CFNR(A)	CFNR - option A - late release	
	CFNR(B)	CFNR - option B - immediate release	
CD(a)		CD during alerting	call diversion
	CD(a, A)	CD during alerting - option A - late release	may occur
	CD(a, B)	CD during alerting - option B - immediate release	
CFB(u, e)		CFB user determined with early ACM	
CD(i, e)		CD immediate response with early ACM	
CFU		Call forwarding unconditional	
CFB(n)		CFB network determined	call is
CFB(u, I)		CFB user determined with late ACM	diverting
CD(i, l)		CD immediate response with late ACM	
CD(i)		CD immediate response	

TSS CDIV/	TP ISS_V_12_1	ISUP'97 reference 2.5.2.1.1/Q.732 [27]	Selection expression OLE	Q.788 [38] reference 2.6.1
indicator set to "call is of Applicable redirection red" "busy" "unconditional" "deflection immediate red Case a) access setup <alerting< td=""><td>be successfully established, diverting", the call diversion eason in the call diversion ir CFB(n); CFB(u, I) CFU esponse" CD(i, I)</td><td>information and the redinformation : SPB (IAM</td><td>SPD >)</td><td>eric notification</td></alerting<>	be successfully established, diverting", the call diversion eason in the call diversion ir CFB(n); CFB(u, I) CFU esponse" CD(i, I)	information and the redinformation : SPB (IAM	SPD >)	eric notification
1. The stimulus 2. Redirection ro 3. CPG (alerting Case b) access setup <alerting ringi</alerting 	access will initiate a call set eason is "busy".)) coded as if it has been ma	up. pped from ACM including SPB (IAM (<acm< td=""><td>BCI. </td><td></td></acm<>	BCI. 	
1. The stimulus 2. Redirection redirection redirection redirection 3. CPG (alerting Case c) access setup <alerting< td=""> r</alerting<>	access will initiate a call set eason is "'unconditional". g) coded as if it has been ma	up. pped from ACM including SPB (IAM (<acm< td=""><td>BCI. SPD >))</td><td></td></acm<>	BCI. SPD >))	
2. Redirection re	access will initiate a call set eason is "deflection immedia g) coded as if it has been ma	te response".		

	TSS CDIV/	TP ISS_V_12_2		IP'97 reference 2.1.1/Q.732 [27]	Selection expression OLE	Q.788 [38] reference 2.6.3; 2.7.1
י ר r	nay occur" in the option	be successfully established, nal backward call indicator	r s . The	following CPG con	tains the generic noti	fication
ŀ		liverting", the call diversion ason in the call diversion in CFB(u, e)			irection number , if di∖	ersion occurs.
"	no reply" deflection during alertin deflection immediate re	CFNR g" CD(a)				
C	Case a)					
ć	access setup	SPA >IAM			SPD	
		<acm< td=""><td> (</td><td></td><td></td><td></td></acm<>	(
		- <cpg< td=""><td> (</td><td><acm< td=""><td>)</td><td></td></acm<></td></cpg<>	(<acm< td=""><td>)</td><td></td></acm<>)	
		- <anm< td=""><td> (</td><td><anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
		access will initiate a call set n may occur" in Event indica	•			
3	3. 'Call forwarde	ed on busy" in Event indicate	or and			
-	Lase b)) coded as if it has been ma	pped f	rom ACM, with RNN	ibres parameter.	
ð	access	SPAIAM	SPB ->		SPD	
	-	<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
	(progress) <alerting< td=""><td><cpg< td=""><td></td><td>IAM <acm< td=""><td></td><td></td></acm<></td></cpg<></td></alerting<>	<cpg< td=""><td></td><td>IAM <acm< td=""><td></td><td></td></acm<></td></cpg<>		IAM <acm< td=""><td></td><td></td></acm<>		
		nging tone - <anm< td=""><td> (</td><td><anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
L			-		,	
2	2. 'Subscriber fr 3. CPG (Progres	access will initiate a call set ee" in CdPSI & "Call diversions) in Event indicator and als	on may		on ('CFNR'), Generic n	otification, and
	· · ·	umber.) coded as if it has been ma	pped f	rom ACM, with RnN	IbRes parameter, and	including BCI.
	Case c) access	SPA	SPB		SPD	
		>IAM				
		<acm< td=""><td> (</td><td></td><td></td><td></td></acm<>	(
	ri	- <cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
	<answer< td=""><td>- <anm< td=""><td> (</td><td><anm< td=""><td>)</td><td></td></anm<></td></anm<></td></answer<>	- <anm< td=""><td> (</td><td><anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
2	2. 'Subscriber fr	access will initiate a call set ee" in CdPSI & "Call diversio	on may			1 B A
	number.	s) in Event indicator and als				
	4. CPG(alerting) Case d)	coded as if it has been map	sped ii		DRes parameter, and i	ncluding DCI.
6	access setup	SPA >IAM			SPD	
		<acm< td=""><td> (</td><td></td><td></td><td></td></acm<>	(
		- <cpg< td=""><td> (</td><td><acm< td=""><td>)</td><td></td></acm<></td></cpg<>	(<acm< td=""><td>)</td><td></td></acm<>)	
		- <anm< td=""><td> (</td><td><anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
		access will initiate a call set ee" in CdPSI & "Call diversio		occur" in Event inc	licator.	
3	3. 'Deflection im	mediate response" in Even	t indica	tor and also Call di	version information.	
L_				- ,		

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CDIV/	ISS_V_12_3	2.4.2;	expression	reference
		Table 2-1/Q.732 [27]	OLE	None
To verify that the original system, if the notification with redirection number	esentation allowed - accord ating exchange makes the re n subscription option of the o '. er restriction parameter is s	edirection number availat call diversion information	ble to the calling acces n is coded "010 preser	
access	SPA	SPB	SPD	
setup	->IAM <acm< td=""><td>,</td><td>>)</td><td></td></acm<>	,	>)	
-	<cpg< td=""><td> (<acm< td=""><td>)</td><td></td></acm<></td></cpg<>	(<acm< td=""><td>)</td><td></td></acm<>)	
<answer< td=""><td> <anm< td=""><td> (<anm< td=""><td>)</td><td></td></anm<></td></anm<></td></answer<>	<anm< td=""><td> (<anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
1. The stimulus presented on	access will initiate a call set the access.	up. The verdict will be se	t to pass if the Redired	tion number is
	entation allowed with redired	(1)		
	umber restriction parameter	1	1 /	
NOTE: CFU is used	as redirection reason, but ot	ther reasons are also appli	cable.	

TSS CDIV/	-	_12_4	JP'97 reference 2.4.2; le 2-1/Q.732 [27]	Selection expression OLE	Q.788 [38] reference None
To verify that the osignalling system, not allowed", "011	originating exchange if the notification sul presentation allowe		redirection numbe ne call diversion in number" or "000 un	er available to the callin formation is coded "(nknown".	
Case a)			o presentation and	weu.	
access	SPA	SPB		SPD	
	>	-IAM> (-ACM	IAM		
	g <	-CPG (<acm< td=""><td>)</td><td></td></acm<>)	
		-ANM (<anm< td=""><td>)</td><td></td></anm<>)	
present 2. NSO is	ed on the access. "presentation allowe	iate a call set up. Th ed with redirection nu on parameter "prese	umber" (implicit) and		ion number is
		reason, but other rea			
Case b)		,			
access setup	SPA >	SPB -IAM> (IAM	SPD >)	
		-ACM (<acm< td=""><td>)</td><td></td></acm<>)	
		-ANM (<anm< td=""><td>)</td><td></td></anm<>)	
present 2. NSO is 3. Redirec	ed on the access. "presentation allowe tion number restricti	iate a call set up. Th ed without redirection on parameter "prese reason, but other rea	n number" and RnR entation allowed" (in	nplicit).	ion number is
Case c)					
access setup		SPB -IAM> (-ACM	IAM	SPD >)	
		-CPG (<acm< td=""><td>)</td><td></td></acm<>)	
		-ANM (<anm< td=""><td>)</td><td></td></anm<>)	
present 2. NSO is	ed on the access. "unknown" and RnR	Reas = CFU.		t to pass if no Redirect	ion number is
		on parameter "prese			
NOTE 3: CFU is	used as redirection				

TSS CDIV/		TP ISS_V_12_5	2.	reference 4.2; /Q.732 [27]	Selection expression OLE	Q.788 [38] reference None
To verify that the signalling system	originating n, if the rec subscription	entation restricted - acc g exchange does not m lirection number rest n option of the call dive	ording to redin nake the redire riction parame	ection number ection number eter indicates	r restriction parameter r available to the calli "01 Presentation restr	ng access icted".
access	SP	A	SPB		SPD	
setu	p>	IAM <acm< td=""><td></td><td>IAM</td><td>>)</td><td></td></acm<>		IAM	>)	
	5	<cpg< td=""><td> (<</td><td>ACM</td><td>)</td><td></td></cpg<>	(<	ACM)	
		<anm< td=""><td> (<</td><td>ANM</td><td>)</td><td></td></anm<>	(<	ANM)	
prese 2. NSO	nted on the	ation allowed with redir	ection number	" (implicit)" ar	nd RnReas = CFU.	tion number is
		number restriction para redirection reason, but		•		

TSS CDIV/	TP ISS_I_12_6	ISUP'97 reference 2.4.2; Table 2-1/Q.732 [27]	Selection expression OLE	Q.788 [38] reference None
To verify that the original signalling system, if no r	esentation restricted - no re ting exchange does not ma redirection number restric tion option of the call diver	ke the redirection numbe tion parameter is received	r available to the callir	
<alerting ri</alerting 	SPA ->IAM <acm <cpg nging tone <anm< td=""><td> (<acm< td=""><td>)</td><td></td></acm<></td></anm<></cpg </acm 	(<acm< td=""><td>)</td><td></td></acm<>)	
presented on 2. NSO is "prese	access will initiate a call se the access. entation allowed with redire) without the redirection nu	ction number" (implicit) and	l RnReas = CFU.	on number is

TSS CDIV/	TP ISS_I_12_7	ISUP'97 reference 2.4.2/Q.732 [27]	Selection expression OLE	Q.788 [38] reference None		
Test purpose			•			
	lirection number not send by	the last diversion				
	ating exchange does not mak		er available to the callin	ng access		
	last diverting exchange does			0		
	rting exchange sends the rec		ows for its presentatior	n. The second		
(last) diversio	on allows for the presentation	of the redirection numb	er, but does not send i	it, i.e. only call		
diversion inf	ormation is present in the m	essage and the redirection	on number is missing.	The redirection		
number rest	riction parameter is also rec	eived as "presentation all	owed".			
access	SPA S	PB	SPD			
1	->IAM		,			
	<acm< td=""><th></th><td>1st diversio</td><th></th></acm<>		1 st diversio			
	<cpg< td=""><th></th><td></td><th>on</th></cpg<>			on		
<alerting< td=""><td> <cpg< td=""><th>- (<cpg< th=""><td>) (alerting)</td><th></th></cpg<></th></cpg<></td></alerting<>	<cpg< td=""><th>- (<cpg< th=""><td>) (alerting)</td><th></th></cpg<></th></cpg<>	- (<cpg< th=""><td>) (alerting)</td><th></th></cpg<>) (alerting)			
	access will initiate a call set	up. The verdict will be set	t to pass if no Redirecti	on number is		
presented on						
	ation with NSO: "Presentation	in allowed with number', I	RnReas = CFU and 1 st	Redirection		
number.						
number.						
CPG alerting	with RnNbRes parameter fo	r the 2 nd Redirection num	ber.			

TSS CDIV/	TP ISS_I_12_8	ISUP'97 reference 2.4.2/Q.732 [27]	Selection expression OLE	Q.788 [38] reference None
option To verify that the origina contents of the most res user allows presentation	tirection number - presentation number - presentation tring exchange handles the p trictive notification subscription of the number ("presentation	resentation of the redire on option of the call dive n allowed" in the redirec	ction number accordir rsion information, if t tion number restrictio	ng to the he forwarded-to on parameter).
	sages each containing the ca d (from option B - immediate			
<pre>(no indication) (no indication) (no indication) (no indication) <alerting pre="" ring<=""></alerting></pre>	SPA IAM <cpg <cpg <cpg ging tone</cpg </cpg </cpg 	 (<acm (<cpg (<cpg (<cpg< td=""><td>1st diversion) 2nd diversion) 3rd diversion) 4th diversion) (alerting)</td><td>n n</td></cpg<></cpg </cpg </acm 	1 st diversion) 2 nd diversion) 3 rd diversion) 4 th diversion) (alerting)	n n
presented on 2. Redirection n	access will initiate a call set the access. umber restriction parameter as redirection reason, but oth	· "presentation allowed" (ir	nplicit/default).	ion number is

TSS CDIV/	TP ISS_V_12_9	ISUP'97 reference 2.5.2.2.1; 2.5.2.5.1.2 d)/Q.732 [27]	Selection expression IntermE	Q.788 [38] reference None
Test purpose				
Notification procedures	for a diverting call - before th	e diverting exchange		
	n successfully pass on in the		he leg before the diver	sion) all the
	m the diverting exchange.	Υ.	5	,
	t the following signalling info	mation is passed on:		
	call indicators with setting "		for CFNR, CD(a), CFE	3(u.e) and CD(i.
e)	5	5	, , , , , ,	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
ACM with generic n	can be tested for CFU, CFB otification indicator, call di M or CON) with redirection	version information and		
	messages can be tested for			
	optional backward call ind			
	generic notification indica			number:
	ing (or ANM or CON) with re			, namber,
Case a)			F	
· ·	SPA	SPB	SPD	
setup	>IAM>	(IAM	->)	
<acm< td=""><td>- <acm< td=""><td>RnReas, number</td><td></td><td></td></acm<></td></acm<>	- <acm< td=""><td>RnReas, number</td><td></td><td></td></acm<>	RnReas, number		
<cpg< td=""><td>- <cpg< td=""><td>(<acm< td=""><td>) RnNbRes</td><td></td></acm<></td></cpg<></td></cpg<>	- <cpg< td=""><td>(<acm< td=""><td>) RnNbRes</td><td></td></acm<></td></cpg<>	(<acm< td=""><td>) RnNbRes</td><td></td></acm<>) RnNbRes	
	ging tone			
<anm< td=""><td>- <anm< td=""><td>(<anm< td=""><td>)</td><td></td></anm<></td></anm<></td></anm<>	- <anm< td=""><td>(<anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
	provide the necessary stimul			
	cation) with CDInf, GenNot =			
CPG (alerting) with RnNbRes - coded as i	f it has been mapped fror	n ACM; including BCI.	
Case b)				
		PB	SPD	
	>IAM>			
	- <acm< td=""><td></td><td></td><td></td></acm<>			
	- <cpg< td=""><td></td><td>,</td><td></td></cpg<>		,	
	- <cpg< td=""><td>(<acm< td=""><td>-) RnNbRes</td><td></td></acm<></td></cpg<>	(<acm< td=""><td>-) RnNbRes</td><td></td></acm<>	-) RnNbRes	
	nging tone			
<anm< td=""><td>- <anm< td=""><td>(<anm< td=""><td>-)</td><td></td></anm<></td></anm<></td></anm<>	- <anm< td=""><td>(<anm< td=""><td>-)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>-)</td><td></td></anm<>	-)	
		· · ·		
	provide the necessary stimu			
	ional backward call indicato			
	ss) with CDInf, GenNot = "ca			
CPG (alerting) with RnNbRes - coded as i	f it has been mapped fror	n ACM; including BCI.	

TSS CDIV/	TP ISS_V_12_10	ISUP'97 reference 2.5.2.2.1/Q.732 [27]	Selection expression IntermE	Q.788 [38] reference None
To verify that the IUT c information from the div It has to be checked the redirecting numbe	for a diverting call - after th an successfully pass on in b rerting exchange. at the following signalling in r (note: altered in Gateways nber (note: altered in Gatev	both directions (on the leg a formation is passed on in th s)		ne diversion
redirection inform It has to be checked that	ation at the following signalling in r restriction parameter (in		e backward direction:	
redirection inform It has to be checked that	at the following signalling in		ne backward direction:	
redirection inform It has to be checked the redirection numbe	at the following signalling in r restriction parameter (in	ACM /CPG /ANM /CON) SPB	SPD	
redirection inform It has to be checked the redirection numbe SPC IAM	at the following signalling in r restriction parameter (in SPA	ACM /CPG /ANM /CON) SPB > with RnInf, Ori	SPD	
redirection inform It has to be checked the redirection numbe SPC IAM <acm< td=""><td>at the following signalling in r restriction parameter (in SPA ->IAM</td><th>ACM/CPG/ANM/CON) SPB > with RnInf, Ori RnNbRes</th><td>SPD</td><td></td></acm<>	at the following signalling in r restriction parameter (in SPA ->IAM	ACM/CPG/ANM/CON) SPB > with RnInf, Ori RnNbRes	SPD	

3. The Redirection number restriction parameter is set to "presentation allowed" by default.

TSS CDIV/	TP ISS_I_12_11	ISUP'97 reference 2.5.2.3/Q.732 [27] ; 3.5.2.3/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
To verify that the outgoir the procedures as define Applicable tests: Discarding the origir Discarding the origi r Converting the origi r and address presentatio	ed for CLIP. Tail called number if case tail called number , if the a tail called number to inten a restricted indicator	hecks and manipulates the of bilateral agreements (PIC address is marked not availa rnational format with transpa	CS A.15/11) able	-
Discarding an incom	olete original called num	iber		
,	SPA	SPB		
IAM	>IAM	>		
1. The PTC will	send an IAM with OriCdN	b.		
Case b)				
	SPA	SPB		
IAM	>IAM	>		
1. The PTC will	send an IAM with an "add	ress not available" OriCdNb		
Case c)				
SPC	SPA	SPB		
IAM	>IAM	>		
1. The PTC will s	send an IAM with a nation	al (aignificant) OriCdNb		

TSS CDIV/	TP ISS_V_12_12	ISUP'97 reference 2.5.2.3/Q.732 [27] ; 3.5.2.3/Q.731 [25]	Selection expression OutIE	Q.788 [38] reference None
To verify that the outgoin procedures as defined for Applicable tests: Discarding the redire Discarding the redire Converting the redire address presentation res	or CLIP. Ecting number if case of b Ecting number , if the addre- Ecting number to internation intricted indicator	ateway necks and manipulates the ilateral agreements (PICS a ess is marked not available onal format with transparer	A.15/12)	
Case a)	blete redirecting number			
	SPA >IAM	SPB >		
	send an IAM with RgNb.			
	SPA >IAM	SPB >		
1. The PTC will s	send an IAM with an "addr	ess not available" RgNb.		
	SPA >IAM	SPB >		
1. The PTC will s	send an IAM with a nationa	al significant RgNb.		

TSS CDIV/	TP ISS_V_12_13	ISUP'97 reference 2.5.2.3/Q.732 [27]	Selection expression OutIE	Q.788 [38] reference None
Test purpose				
Redirection number in	the outgoing international gat	eway.		
To verify that the outgo	oing international gateway che	cks and manipulates the	redirection number ad	ccording to the
procedures defined for	r COLP.	-		-
Tests applicable:				
Converting the red	irection number to national for	ormat, if necessary (own o	country code)	
Adding a prefix to a	an international redirection nu	umber (PICS A.15/14 - na	ational option @)	
Case a)				
SPC	SPA	SPB	SPD	
IAM	>IAM	-> (IAM	>)	
<acm< td=""><td> <acm< td=""><td> RnReas, number</td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td> RnReas, number</td><td></td><td></td></acm<>	RnReas, number		
<cpg< td=""><td> <cpg< td=""><td> (<acm< td=""><td>) RnNbRes</td><td></td></acm<></td></cpg<></td></cpg<>	<cpg< td=""><td> (<acm< td=""><td>) RnNbRes</td><td></td></acm<></td></cpg<>	(<acm< td=""><td>) RnNbRes</td><td></td></acm<>) RnNbRes	
	ringing tone			
<anm< td=""><td> <anm< td=""><td> (<anm< td=""><td>)</td><td></td></anm<></td></anm<></td></anm<>	<anm< td=""><td> (<anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
	ill provide the necessary stimu			
	DInf, GenNot = "call is divertir	5		own CC.
· · · · ·	ng) with RnNbRes - coded as	if it has been mapped fror	m ACM including BCI.	
Case b)				
SPC	SPA	SPB	SPD	
	>IAM	(>)	
	<acm< td=""><td>-</td><td></td><td></td></acm<>	-		
	<cpg< td=""><td> (<acm< td=""><td>) RnNbRes</td><td></td></acm<></td></cpg<>	(<acm< td=""><td>) RnNbRes</td><td></td></acm<>) RnNbRes	
	ringing tone			
<anm< td=""><td> <anm< td=""><td> (<anm< td=""><td>)</td><td></td></anm<></td></anm<></td></anm<>	<anm< td=""><td> (<anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
	II provide the necessary stimu			.
	DInf, GenNot = "call is divertir	ng" and an international F	RnNb: ISP_Nb_D with	foreign country
code.				
 CPG (alerting) 	ng) with RnNbRes - coded as	if it has been mapped from	m ACIM including BCI.	

TSS CDIV/	TP ISS_V_12_14	ISUP'97 reference 2.5.2.4/Q.732 [27] ; 3.5.2.4/Q.731 [25]	Selection expression InclE	Q.788 [38] reference None	
Test purpose Original called number in the incoming international gateway To verify that the incoming international gateway checks and manipulates the original called number according to the procedures as defined for CLIP. Applicable tests: Converting the original called number to national format, if necessary (own country code) Adding a prefix to an international original called number (PICS A.15/15 - national option @)					
	SPA National				
 The stimulus ISUP will initiate a call set up with the expected signalling information. The received IAM should contain an OriCdNb coded as a national (significant) number. 					
2. The received Case b)	TAIVI SHOUIU CONtain an UriCo		(signincant) number.		
	SPA National				
 The stimulus ISUP will initiate a call set up with the expected signalling information. The received IAM should contain an OriCdNb with prefix. 					

TSS CDIV/	TP ISS_V_12_15	ISUP'97 reference 2.5.2.4/Q.732 [27] ; 3.5.2.4/Q.731 [25]	Selection expression InclE	Q.788 [38] reference None	
J. J	he incoming international gat ing international gateway che or CLIP.	2	redirecting number a	ccording to the	
Converting the redir Adding a prefix to ar	Converting the redirecting number to national format, if necessary (own country code) Adding a prefix to an international redirecting number (PICS A.15/16 - national option @)				
Case a) SPC IAM	SPA >IAM	SPB ->			
	send an IAM with RgNb.				
Case b) SPC IAM	SPA >IAM	SPB ->			
1. The PTC will send an IAM with foreign CC RgNb.					
Case c) SPC IAM	SPA >IAM	SPB ->			
1. The PTC will	send an IAM with RgNb.				

TSS CDIV/	TP ISS_V_12_16	ISUP'97 reference 2.5.2.4/Q.732 [27]	Selection expression InclE	Q.788 [38] reference None
To verify that the incomi procedures defined for (Tests applicable:	ne incoming international ga ng international gateway ch COLP. ection number in case of b	necks and manipulates the		according to the
Converting the redir	ection number to internation	onal format		
<acm <cpg ri <anm 1. The PTC will pr 2. ACM with CDInf,</anm </cpg </acm 	SPA ->IAM <cpg .nging tone <anm ovide the necessary GenNot = "call is d with RnNbRes - coded</anm </cpg 	RnReas, number (<acm stimulus. iverting" and an nat</acm 	, RnNbRes) ional RnNb.	
BCI.				
<acm <cpg< td=""><td>SPA IAM <acm .nging tone <anm< td=""><td> RnReas, number (<acm< td=""><td>,) RnNbRes</td><th></th></acm<></td></anm<></acm </td></cpg<></acm 	SPA IAM <acm .nging tone <anm< td=""><td> RnReas, number (<acm< td=""><td>,) RnNbRes</td><th></th></acm<></td></anm<></acm 	RnReas, number (<acm< td=""><td>,) RnNbRes</td><th></th></acm<>	,) RnNbRes	
2. ACM with CD	provide the necessary stim Inf, GenNot = "call is divert) with RnNbRes - coded as	ing" and a national RnNb.		

TSS CDIV/	TH ISS_V_	12_17 2.5.	P'97 reference 2.4/Q.732 [27] 2.4/Q.731 [25]	Selection expression IncIE AND PICS A.15/13	Q.788 [38] reference None
Test purpose					
Redirection numb	er restriction parame	ter in the incoming in	ternational gatewa	ay.	
To verify that the	incoming internationa	I gateway removes th	ne redirection nu	mber restriction para	meter if the
redirection num	ber has been previous	sly discarded in case	of bilateral agree	ments.	
SPC	SPA	SPB		SPD	
IAM-	>	IAM> (IAM	>)	
<acm-< td=""><td> <</td><td>ACM RnR</td><th>eas, number</th><th></th><th></th></acm-<>	<	ACM RnR	eas, number		
<cpg-< td=""><td> <</td><td>CPG (</td><th><acm< th=""><th>) RnNbRes</th><th></th></acm<></th></cpg-<>	<	CPG (<acm< th=""><th>) RnNbRes</th><th></th></acm<>) RnNbRes	
	ringing tone				
<anm< td=""><td> <</td><td>ANM (</td><th><anm< th=""><th>)</th><th></th></anm<></th></anm<>	<	ANM (<anm< th=""><th>)</th><th></th></anm<>)	
1. The P	C will provide the nee	cessary stimulus.			
	vith CDInf, GenNot = '		a national RnNb.		
	alerting) with RnNbRe	5		m ACM including BCI	
TSS CDIV/	TP ISS_V_12_18	ISUP'97 reference 2.5.2.5.1.1/Q.732 [27]	Selection expression DLE	Q.788 [38] reference None	
---	--	---	--------------------------------	---------------------------------	
Test purpose					
Completion of diverted of	call by the diverted-to exch	nange			
To verify that the IUT ac	cepts and can successfull	y establish a diverted call.			
SPC	SPA	SPB	SPD		
<setup< td=""><td> <iam< td=""><td> (<iam< td=""><td>)</td><td></td></iam<></td></iam<></td></setup<>	<iam< td=""><td> (<iam< td=""><td>)</td><td></td></iam<></td></iam<>	(<iam< td=""><td>)</td><td></td></iam<>)		
	RnReas, numbe	er (ACM	>)		
alerting	>ACM	> (CPG	>) RnNbRes		
1. The PTC will	provide the necessary stir	nulus.			
2. 2 diversions s	simulated in redirection co	unter; Numbers sent: are Ori	CdNb and RgNb.		
3. ACM with CD	Inf, GenNot = "call is dive	rting" and a national RnNb.			
CPG (alerting) with RnNbRes - coded a	as if it has been mapped from	ACM including BCI.		

TSS CDIV/	TP ISS_V_12_19	ISUP'97 reference 2.5.2.5.1.1/Q.732 [27]	Selection expression DLE	Q.788 [38] reference None
Test purpose				
0		r at the diverted-to exchange	<i>u ,</i>	
To verify that the IUT inc	cludes the redirection nu	mber restriction indicator in	the ACM, CPG, ANI	I or CON set to
"presentation allowed" (COLR not activated).			
SPC	SPA	SPB		
< setup	<iam< td=""><td> (Diverted cal</td><td>1)</td><td></td></iam<>	(Diverted cal	1)	
alerting	>ACM	> RnNbRes (1)		
:				
or				
alerting	>ACM	>		
:	CPG	> RnNbRes (2)		
or				
alerting	>ACM	>		
connect	>ANM	> RnNbRes (3)		
:				
or				
connect	>CON	> RnNbRes (4)		
14. Pass when th	e redirection number restr	iction parameter with the co	ding "00 - Presentatio	on allowed" is
received in or	ne of the allowed message	es.	-	
5. Check the rin	ging tone from SPA to SP	B		

TSS CDIV/	TP ISS_V_12_20	ISUP'97 reference 2.5.2.5.1.1/Q.732 [27]	Selection expression DLE	Q.788 [38] reference None
Test purpose				
	umber restriction indicator a	t the diverted-to exchange	e (pres. restricted)	
	cludes the redirection num			or CON set to
"presentation restricted"			, ,	
Pre-test conditions	,			
Arrange the data in the I	UT so that the diverted-to u	ser subscribes to the COL	R supplementary serv	ice.
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td> (Diverted ca</td><td>11)</td><td></td></iam<></td></setup<>	<iam< td=""><td> (Diverted ca</td><td>11)</td><td></td></iam<>	(Diverted ca	11)	
alerting	>ACM	> RnNbRes (2.)		
:				
or				
alerting	>ACM	>		
:	CPG	> RnNbRes (3.)		
or				
9	>ACM			
connect	>ANM	> RnNbRes (4.)		
:				
or				
connect	>CON	> RnNbRes (5.)		
	ss PTC will assist the call se			
	e redirection number restric ne of the allowed messages	-	oding "01 - Presentation	n restricted" is
	ging tone from SPA to SPB.			

TSS CDIV/	TP ISS_V_12_21	ISUP'97 reference 2.5.2.5.1.2 b) 1)/Q.732 [27]	Selection expression DLE AND PICS A.15/2	Q.788 [38] reference None
Test purpose	ounter in the diverting ex	change - first diversion		
5	5	all which has not been diverted	I before and set the r	edirection
counter to the correct va	5			cancellon
		the redirection counter should	be set to 1.	
Pre-test conditions	iy to allower often allgo,			
Arrange the data in the I	UT so that called user ha	as activated diversion to an ex	ternal exchange.	
	SPA (IUT)	SPB	0	
(No diversions)	(One diver	sion)		
IAM	->IAM	>		
1. The PTC will	send an IAM with a natio	nal (significant) OriCdNb.		

TSS CDIV/	TP ISS_V_12_22	ISUP'97 reference 2.5.2.5.1.2 b) 1)/Q.732 [27]	Selection expression DLE AND PICS A.15/2	Q.788 [38] reference None
Test purpose				
Setting of redirection co	unter in the diverting exch	ange - multiple local diversioi	าร	
To verify that the IUT ca	n successfully divert a call	which has not been diverted	I before and set the re	edirection
counter to the correct va	lue.			
The call is diverted N<=	5 times; the redirection co	unter should be set to N. (e.g	. for the pre-test conc	lition the call is
		en to an external exchange, I		
SPC	SPA (IUT)	SPB	,	
(No diversions)	(one local divers	<pre>ion) (Two diversions)</pre>		
IAM	->IAM	>		
1. The PTC will	send an IAM with a nation	al (significant) OriCdNb.		
2. RnCnt = 2 = '	010'B expected.			

TSS CDIV/	TP ISS_V_12_23	ISUP'97 reference 2.5.2.5.1.2 b) 1)/Q.732 [27]	Selection expression DLE AND PICS A.15/2	Q.788 [38] reference None
1 0	counter in the diverting exch an successfully divert a call v	0	erted and increment t	he redirection

counter. NOTE: The call has been diverted 1 - 4 times.

Pre-test conditions

Arrange the data in the IUT so that called user has activated diversion to an external exchange

TSS CDIV/	TP ISS_V_12_24	ISUP'97 reference 2.5.2.5.1.2 b) 2)/Q.732 [27]	Selection expression DLE	Q.788 [38] reference None		
[27] DLE None Test purpose Original called number generated by the diverting exchange Verify that the IUT sets the address presentation restricted indicator of the original called number according to the "served user releases his/her number to the diverted-to user" option. The redirecting indicator in the redirection information shall be set to "011 Call diverted". Pre-test conditions Arrange the data in the IUT so that called user has activated diversion to an external exchange.						
	·	SPB ion release information > RnInf.RgInd='011"		= ' 0 0 '		

TSS CDIV/	TP ISS_V_12_25	ISUP'97 reference 2.5.2.5.1.2 b) 4)/Q.732 [27]	Selection expression DLE	Q.788 [38] reference None		
Test purpose		L=·1				
Redirecting number gen	erated by the diverting exc	change				
Verify that the IUT sets t	he address presentation re	estricted indicator of the redi	recting number acc	ording to the		
	s/her number to the diverte		•	0		
		ation shall be set to "011 Ca	Il diverted".			
Pre-test conditions						
Arrange the data in the I	UT so that called user has	activated diversion to an ext	ernal exchange.			
SPC	SPA (IUT)	SPB				
(5	ubscription option	= Do not release info	rmation)			
IAM>IAM> RnInf.RgInd='100" & RgNb.APRI = "00'						
1. The PTC will	send an IAM with a nation	al (significant) OriCdNb.				

TSS CDIV/	TP ISS_V_12_26	ISUP'97 reference 2.5.2.5.1.2 b) 5)/Q.732 [27]	Selection expression DLE	Q.788 [38] reference None	
[27] DLE None Test purpose ISDN user part preference indicator in the diverting exchange To verify that the IUT can successfully divert a call and that ISDN user part preference indicator received in the forward call indicators with the value "ISDN user part not required all the way" shall be changed to "ISDN user part preferred all the way" preferred all the way" shall be left unchanged required all the way" shall be left unchanged required all the way" shall be left unchanged required all the way" shall be left unchanged. Pre-test conditions Arrange the data in the IUT so that called user has activated diversion. Case a) SPA (IUT) SPB ISUP not required ISUP preferred					
2. The ISUP pre Case b) SPC SF ISUP preferred	send a call with the expecte ference indicator is checked PA (IUT) SI ISUP preferred	і. РВ 1	exchange.		
2. The ISUP pre Case c) SPC SF ISUP required IAM 1. The PTC will	send a call with the expected ference indicator is checked (IUT) S ISUP required >IAM send a call with the expected ference indicator is checked	I. SPB -> ed stimulus to the diverting	-		

'	TSS CDIV/	TP ISS_V_12_27	ISUP'97 reference 2.5.2.5.1.2 c) ii); iii)/Q.732 [27]	Selection expression DLE	Q.788 [38] reference None
To verify the ACM Pre-test o Arrange t	rsion may occu that the IUT ind in case of CFN conditions he data in the	IR, CD(a), ČFB(u, e) an	kward call indicator with the		·
exchange SPC	5.	SPA	SPB		
	-IAM		512		
<	-ACM	CDmo			
		· CDmo ·IAM	>		
<	-CPG				
<	-CPG	IAM			
< <	-CPG -CPG	IAM <acm< td=""><td></td><td></td><td></td></acm<>			
< <	-CPG -CPG rir -ANM	ging tone SUP will initiate a calls		and expect to receive t	the indication

CDIV/	TP ISS_V_12_28	ISUP'97 reference 2.5.2.5.1.2 c) ii); Table 2-2/Q.732 [27]	Selection expression DLE AND PICS A.16/5	Q.788 [38] reference None
Test purpose				
Served user answers th	e call before T _{CFNR} expiry			
		d user and that no signallin	g occurs on the diverte	ed-to user leg if
	ore timeout of Timer T _{CFNR}	, in case of CFNR		
Pre-test conditions				
	IUT so that called user has	activated the CFNR servic	e.	
Case a)				
	SPA	SPB		
IAM>				
<acm< td=""><td></td><td></td><td></td><td></td></acm<>				
<anm< td=""><td>-</td><td></td><td></td><td></td></anm<>	-			
1. The stimulus				he indication
"call diversior 2. Pass if no sig	n may occur". gnalling is observed on the		and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b)	n may occur". gnalling is observed on the	AB link.	and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC S	n may occur". gnalling is observed on the		and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC SPC S IAM>	n may occur". gnalling is observed on the SPA	AB link.	and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC S	n may occur". gnalling is observed on the SPA - CDmo	AB link.	and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC S IAM> <acm< td=""><td>n may occur". gnalling is observed on the SPA</td><td>AB link.</td><td>and expect to receive t</td><td>he indication</td></acm<>	n may occur". gnalling is observed on the SPA	AB link.	and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC S IAM> <acm< td=""><td>n may occur". gnalling is observed on the SPA - CDmo TCFNR e:</td><td>AB link. SPB xpiry -></td><td>and expect to receive t</td><td>he indication</td></acm<>	n may occur". gnalling is observed on the SPA - CDmo TCFNR e:	AB link. SPB xpiry ->	and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC S IAM> <acm <cpg< td=""><td>n may occur". gnalling is observed on the SPA - CDmo TCFNR e: IAM</td><td>AB link. SPB xpiry -></td><td>and expect to receive t</td><td>he indication</td></cpg<></acm 	n may occur". gnalling is observed on the SPA - CDmo TCFNR e: IAM	AB link. SPB xpiry ->	and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC S IAM> <acm <cpg ring</cpg </acm 	n may occur". gnalling is observed on the SPA - CDmo TCFNR e: IAM	AB link. SPB xpiry -> 	and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC S IAM> <acm <cpg ring</cpg </acm 	n may occur". gnalling is observed on the SPA - CDmo TCFNR e: IAM sing tone	AB link. SPB xpiry -> 	and expect to receive t	he indication
"call diversion 2. Pass if no sig Case b) SPC S ACM CPG ring answer 1. The stimulus	n may occur". gnalling is observed on the SPA - CDmo IAM ging tone - <anm ISUP will initiate a call set</anm 	AB link. SPB xpiry -> 		
"call diversion 2. Pass if no sig Case b) SPC S ACM CPG ring answer 1. The stimulus "call diversion"	n may occur". gnalling is observed on the SPA - CDmo IAM <acm ging tone - <anm< td=""><td>AB link. SPB xpiry -> up to diverting user at IUT a</td><td></td><td></td></anm<></acm 	AB link. SPB xpiry -> up to diverting user at IUT a		

TSS CDIV/	TP ISS_V_12_29	ISUP'97 reference 2.5.2.5.1.2 c) i); ii); iii)/Q.732 [27]	Selection expression DLE AND NOT PICS A.16/1	Q.788 [38] reference None
To verify that the IUT ca circuit immediately, in ca Pre-test conditions	nection in the diverting exch on successfully divert a call a ase of CFU, CFB, CD(i), CF IUT so that called user has a	and that the incoming circu NR(B) and CD(a, B).		
SPC		SPB		
Check bot <cpg< td=""><td>h way communication - <acm nging tone <anm< td=""><th> RnNbRes</th><td>CdNb, RgNb)</td><td></td></anm<></acm </td></cpg<>	h way communication - <acm nging tone <anm< td=""><th> RnNbRes</th><td>CdNb, RgNb)</td><td></td></anm<></acm 	 RnNbRes	CdNb, RgNb)	
	ISUP will initiate a call set u circuit should be connected		0	у.

TSS CDIV/	TP ISS_V_12_30	ISUP'97 reference 2.5.2.5.1.2 c) ii)/Q.732 [27]	Selection expression DLE AND PICS A.16/1 (option A)	Q.788 [38] reference None
To verify that the IUT the indication and in the forv CFNR(A) and CD(a, A). NOTE: The IUT can the Pre-test conditions	ckwards upon alerting and for ough-connects in the backw vard direction (outgoing circ through-connect in both dire UT so that called user has a	vard direction (incoming ci uit) after receiving the ans ections after receiving the a	e diverting exchange rcuit) after receiving the wer (connect) indicatio alerting indication.	n, in case of
SPC	SPA	SPB		
Chec <cpg Chec (e.g ri <anm< td=""><td>> L}IAM Ek that there is no t <acm Ek that there is thro nging tone) <anm Ek that there is thro</anm </acm </td><td>hrough-connection (RnNbRes) ugh-connection back</td><td></td><th></th></anm<></cpg 	> L}IAM Ek that there is no t <acm Ek that there is thro nging tone) <anm Ek that there is thro</anm </acm 	hrough-connection (RnNbRes) ugh-connection back		
2. Will disrupt th	ISUP will initiate a call set u e call handling and cause fa backward through-connect on after ANM.	ailure if received unexpect	edly at left PTC.	ау

TSS CDIV/	TP ISS_V_12_31	ISUP'97 reference 2.5.2.5.1.2 c) ii)/Q.732 [27]	Selection expression DLE AND PICS A.16/1 (option A)	Q.788 [38] reference None
Test purpose				
	efore receipt of alerting indica		0	
	ows the served user to answ			
	NR(A) and CD(a, A). The se			
	eived and the connection to	wards the diverted-to exch	hange shall be released	d.
Pre-test conditions				
	IUT so that called user has a		a, A) to an external exc	change.
SPC		SPB		
IAM>				
<acm< td=""><td>CDmo</td><td></td><td></td><th></th></acm<>	CDmo			
	TCFNR expiry			
	IAM>	>		
	<acm (noind)<="" td=""><td>-</td><td></td><th></th></acm>	-		
Served user answe				
<anm< td=""><td>REL></td><td></td><td></td><th></th></anm<>	REL>			
:	< RLC	-		
	ISUP will initiate a call set up	o to diverting user at IUT .		
2. The stimulus	access will assist the call se	t up at the served user sid	le.	
	indication as if another diver	sion may occur in order to	o give time to the user a	at UNI at SPA
to answer the	e call.	-		
4. Call on forwa	rding leg is released.			
	all set up carried out by the F	PTC.		

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TSS CDIV/	TP ISS_V_12_32	ISUP'97 reference 2.5.2.5.1.2 c) ii)/Q.732 [27]	Selection expression DLE AND	Q.788 [38] reference 2.7.4;	
		[27]	PICS A.16/1 (option A)	2.9.7	
Test purpose Unsuccessful call setup to the diverted-to user, ringing tone applied by the diverting exchange To verify that, if the IUT receives a release indication with cause "user busy" from the diverted-to exchange, it continues to provide ringing tone to the calling user until he releases the connection (or timer T9 in the controlling exchange expires), in case of CFNR(A) and CD(a, A). Pre-test conditions					
	IUT so that called user has a	activated CFNR(A) or CD(a	a, A) to an external exc	hange.	
SPC	SPA	SPB			
IAM	>				
<acm< td=""><td>- CDmo</td><th></th><td></td><td></td></acm<>	- CDmo				
	TCFN	R expiry			
	IAM				
	<rel< td=""><th>- busy</th><td></td><td></td></rel<>	- busy			
	RLC	>			
ringing	tone				
Т9					
REL					
<rlc< td=""><td>-</td><th></th><td></td><td></td></rlc<>	-				
	ISUP will initiate a call set u			tone.	
 The stimulus Release with 	access is mainly responsibl	e for generating the ringing	g tone.		

TSS CDIV/	TP ISS_V_12_33	ISUP'97 reference 2.5.2.5.2.1 c) iii)/Q.732 [27]	Selection expression DLE AND NOT PICS A.16/1	Q.788 [38] reference 2.6.4 2.7.5 2.8.3 2.9.5 2.9.6
Test purpose				
Unsuccessful call setu	p to the diverted-to user, a	call released by the diverting e	xchange	
To verify that, if the IU	T receives a release indica	ation with cause "user busy" fr	om the diverted-to exc	hange, it
releases the call (incor	ning circuit) and the resou	rces, in case of CFU, CFB, CI	D(i), CFNR(B) and CD	(a, B).
Pre-test conditions				
Arrange the data in the	e IUT so that called user h	as activated CFU, CFB, CD(i),	, CFNR(B) or CD(a, B)	to an external
exchange.				
SPC	SPA	SPB		
IAM				
<acm< td=""><td>5</td><td></td><td></td><td></td></acm<>	5			
	IAM			
(<cpg< td=""><td>) for CFB(u, e),</td><td>, CD(i, e)</td><td></td><td></td></cpg<>) for CFB(u, e),	, CD(i, e)		
	IAM			
	<rel< td=""><td>-</td><td></td><td></td></rel<>	-		
RLC	> RLC	>		
	a ISLID will initiate a call a	at up to the diverting upor at II	IT and check the rele	ase of
1. The stimulu	S ISOF WII IIIIIale a Call S	et up to the diverting user at IL		
1. The stimulu resources.		et up to the diverting user at it		

TSS CDIV/	TP ISS_V_12_34	ISUP'97 reference 2.5.2.5.1.2 e) i-iv) 2)/Q.732 [27]	Selection expression DLE AND PICS A.16/1	Q.788 [38] reference 2.7.1
Test purpose			(option A)	2.9.4
	in the diverting exchange- co	ollecting information for th	he hackward direction	
-	n successfully divert a call a	•		the backward
	indication is received from			
	al CPG messages with call c	5	, , , , , , , , , , , , , , , , , , , ,	· · /
	ne most severe notification s			
Pre-test conditions				
Arrange the data in the I	UT so that called user has a	activated CFNR(A) or CD	(a, A) to an external exc	change.
SPC	SPA	SPB	SPD	
	CFNR (NSO = 010)	CFU (NSO = 011)	COLR activated	
IAM	>			
_	IAM:			
CDmo	<acm< td=""><td>(IAM</td><td>->)</td><td></td></acm<>	(IAM	->)	
	NoInd, RnReas = 0	CFU, Nb_D		
	<cpg< td=""><td></td><td></td><td></td></cpg<>			
		progress, RnNbRes		
<cpg< td=""><td><cpg< td=""><td>(</td><td>/</td><td>-</td></cpg<></td></cpg<>	<cpg< td=""><td>(</td><td>/</td><td>-</td></cpg<>	(/	-
1 '1 C		RnNbRes = 01, ale	erting RnNbRes = 0	1,
subscriber free				
	nging tone		\	
<anm< td=""><td><anm< td=""><td>(<anm< td=""><td>-)</td><td></td></anm<></td></anm<></td></anm<>	<anm< td=""><td>(<anm< td=""><td>-)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>-)</td><td></td></anm<>	-)	
1. The PTC will	provide the necessary stimu	ilus		
	Inf, GenNot = "call is diverting		D.	
	ss) with RnNbRes=00 from u	•		
) with RnNbRes=01 from us			has been
	ACM including BCI.			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CDIV/	ISS_V_12_35	2.5.2.5.1.2 e) i-iv) 1)/Q.732 [27]	expression DLE AND NOT PICS A.16/1	reference None
Test purpose				•
Notification procedures	in the diverting exchange - _l	passing on information in	the backward direction	
To verify that the IUT ca	n successfully divert a call a	and pass on in the backwa	ard direction the diversi	on information
	m the diverted-to exchange	s, in case of CFU, CFB, C	CD(i), CFNR(B) and CD	(a, B).
Pre-test conditions				
	UT so that called user has	activated CFU, CFB, CD(i	i), CFNR(B) or CD(a, B)	to an external
exchange.				
SPC	SPA	SPB	SPD	
	CDIV (NSO=010)	CFU (NSO=011)	COLR activated	
IAM				
	IAM			
) CFB(u, e), CD(i, e			
<cpg< td=""><td><acm< td=""><td>(</td><td>,</td><td></td></acm<></td></cpg<>	<acm< td=""><td>(</td><td>,</td><td></td></acm<>	(,	
		oInd, RnReas=CFU, 7	SP_Nb_D	
<cpg< td=""><td><cpg< td=""><td></td><td></td><td></td></cpg<></td></cpg<>	<cpg< td=""><td></td><td></td><td></td></cpg<>			
		progress, RnNbRes		
<cpg< td=""><td><cpg< td=""><td>(</td><td>/</td><td></td></cpg<></td></cpg<>	<cpg< td=""><td>(</td><td>/</td><td></td></cpg<>	(/	
		RnNbRes = 01, ale	erting RnNbRes = 0	1,
subscriber free				
	nging tone <anm< td=""><td></td><td>)</td><td></td></anm<>)	
<anm< td=""><td><anm< td=""><td>(<anm< td=""><td>)</td><td></td></anm<></td></anm<></td></anm<>	<anm< td=""><td>(<anm< td=""><td>)</td><td></td></anm<></td></anm<>	(<anm< td=""><td>)</td><td></td></anm<>)	
	· · · · · · · · · · · · · · · · · · ·			
	provide the necessary stim		-	
	Inf, GenNot = "call is diverti	•		
(i)	ss) with RnNbRes = 00 from	(/	
) with RnNbRes = 01 from	user at UNI SPD (COLR a	activated) - coded as if i	t has been
mapped from	ACM including BCI.			

TSS CDIV/	TP ISS_V_12_36	ISUP'97 reference 2.5.2.5.1.2 e) i- iv)/Q.732 [27]	Selection expression DLE AND PICS A.16/1 (option A)	Q.788 [38] reference 2.7.1 case C 2.9.4 case C
Test purpose				
Mapping of CON to ANI	A in the diverting exchange -	option A		
	n successfully divert a call a			to a CPG
(alerting), followed by ar	n ANM on the preceding leg i	in case of CFNR(A) or CE	D(a, A).	
Pre-test conditions				
Arrange the data in the	UT so that called user has a	ctivated CFNR(A) or CD(a, A). to an external ex	change.
SPC	SPA	SPB		
IAM	>			
<acm -<="" td="" {cdmo}=""><td></td><td></td><td></td><td></td></acm>				
	IAM		(A), CD(a, A)	
<cpg (alerting}-<="" td=""><td> <con< td=""><td>RnNbRes</td><td></td><td></td></con<></td></cpg>	<con< td=""><td>RnNbRes</td><td></td><td></td></con<>	RnNbRes		
<anm< td=""><td></td><td></td><td></td><td></td></anm<>				
	ISUP will initiate a call set up			
The incoming	circuit should be connected	to outgoing circuit in both	n directions immediatel	у.

The sumulus ISOP will initiate a call set up with the expected signalling information.
 The incoming circuit should be connected to outgoing circuit in both directions immediately.

TSS CDIV/	TP ISS_V_12_37	ISUP'97 reference 2.5.2.5.1.2 e) i-iv)/ Q.732 [27]	Selection expression DLE AND NOT PICS A.16/1	Q.788 [38] reference 2.6.1 case C 2.8.1 case C 2.9.1 case C	
Test purpose Mapping of CON to ANM in the diverting exchange - option B To verify that the IUT can successfully divert a call and map a received CON from the forwarding leg to an ANM on the preceding leg, in case of CFU, CFB, CD(i), CFNR(B) or CD(a, B). Pre-test conditions Arrange the data in the IUT so that called user has activated CFU, CFB, CD(i), CFNR(B) or CD(a, B) to an external					
exchange. SPC IAM	SPA >	SPB			
or	<cpg{diverting}iam> In case of CFB(n), CFB(u, l), CFU, CD(i, l) or</cpg{diverting}iam>				
<acm {cdmo}<br=""><cpg td="" {diverting}<=""><td>IAM</td><td>> CFB(u, e), CFNR(B)</td><td>, CD(a, B), CD(i,</td><td>e)</td></cpg></acm>	IAM	> CFB(u, e), CFNR(B)	, CD(a, B), CD(i,	e)	
<anm< td=""><td> <con< td=""><td> RnNbRes</td><td></td><td></td></con<></td></anm<>	<con< td=""><td> RnNbRes</td><td></td><td></td></con<>	RnNbRes			
	ISUP will initiate a call set up circuit should be connected			у.	

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CDIV/	ISS V 12 38	2.1.1.1 e);	expression	reference
CDIV	135_v_12_50	11		
		Table A1/	DLE	None
		EN 300 356-1 [5]		
Test purpose				
Timer T7 expiry in the d	iverting exchange			
	n divert a call and release th	e resources upon T7 time	er expiry, if no ACM is i	received from
the forwarded-to exchan		•		
Pre-test conditions	.901			
	UT so that called user has a	ctivated diversion to an e	vternal exchange	
SPC		SPB	Atemai exchange.	
IAM		DP D		
<acm< td=""><td></td><td></td><td></td><th></th></acm<>				
<cpg< td=""><td>IAM></td><td>•</td><td></td><th></th></cpg<>	IAM>	•		
		т7		
<rel< td=""><td>REL></td><td></td><td></td><th></th></rel<>	REL>			
RLC>	<rlc< td=""><td>-</td><td></td><th></th></rlc<>	-		
1. The stimulus	ISUP will initiate a call set up	to diverting user at IUT a	and expect to receive t	he indication
"call diversion	•			
	by checking status on left PT	IC together with the recei	int of the REL message	2
	by checking status off left F		proritie ite ite messaye	

TSS CDIV/	TP ISS_V_12_39	ISUP'97 reference 2.1.4.6 b); Table A1/ EN 300 356-1 [5]	Selection expression DLE	Q.788 [38] reference None
the forwarded-to exchar Pre-test conditions	an divert a call and release t nge			received from
			Atema exchange.	
	IAM> <acm< td=""><td></td><td></td><td></td></acm<>			
	REL>			
"call diversion	ISUP will initiate a call set n may occur".	up to diverting user at IUT	and expect to receive	the indication
 ACM subscri Verdict is set 	ber free. by checking status on left F	PTC together with the rece	ipt of the REL messag	je.

TSS CDIV/	TP ISS_V_12_40	ISUP'97 reference 2.5.2.5.2.2/Q.732 [27]	Selection expression DLE AND PICS A.15/2 AND NOT PICS A.16/1	Q.788 [38] reference None
To verify that the IUT wi counter in the redirectio B). The cause values shall CFU "call reject CFB "user bust CFNR(B) "no answer CD(i), CD(a, B) "no ust Pre-test conditions	ted" (21) y" (17) er from user (user alerted)" (er responding" (18)	I diversions and clear the c aximum value, in case of ((19)	call, if it is received with CFU, CFB, CD(i), CFN	
Case a)	IUT so that called user has a SPA <iam REL <rlc< td=""><td>SPB -></td><td>xternal exchange.</td><td></td></rlc<></iam 	SPB ->	xternal exchange.	
	Irection counter set to 5 (or - Cause #21 for CFU. SPA <rel <rlc< td=""><td>SPB -></td><td>5).</td><td></td></rlc<></rel 	SPB ->	5).	
	SPA <iam <rel< td=""><td>SPB -></td><td>5).</td><td></td></rel<></iam 	SPB ->	5).	
	irection counter set to 5 (or onding - Cause #18 for CD(i SPA <iam ACM REL</iam 	TSP_max_div if not equal). SPB -> ->	5).	
	irection counter set to 5 (or onding - Cause #18 for CD(a SPA <iam ACM <rel <rlc< td=""><td>TSP_max_div if not equal a, B). _> _></td><td>5).</td><td></td></rlc<></rel </iam 	TSP_max_div if not equal a, B). _> _>	5).	
	lirection counter set to 5 (or om user (user alerted) - Cau		5).	

-	rss	ТР	ISUP'97 reference	Selection	Q.788 [38]
	DIV/	ISS_V_12_41	2.5.2.5.2.2/Q.732 [27]	expression	reference
l o		100_1_12_41	2.0.2.0.2.2/Q.102 [21]	DLE AND	None
				PICS A.15/2 AND	None
				PICS A.16/1	
Test purpo	ose				
		ng tone in the diverting exch	ange - redirection counte	r set to maximum value)
		ll refuse any further (externa			
		ne call (or timer T9 in OLE ex			
redirectio	n informatio	n set to the maximum value,	in case of CFNR(A) and	CD(a, A).	
Pre-test co	onditions				
Arrange th	e data in the	IUT so that called user has a	activated diversion to an e	xchange.	
Case a)					
access		SPA	SPB		
<§	setup	<iam< td=""><td></td><td></td><td></td></iam<>			
		ACM	>		
	ring	jing tone			
Т9		<rel< td=""><td></td><td></td><td></td></rel<>			
		RLC	>		
1.	IAM with Red	lirection counter set to 5 (or	TSP max div if not equal	5)	
2.		nulates T9 at the controlling		0).	
3.		call with cause 16 - Normal of	0		
Case b)			j (uuruu)		
access		SPA	SPB		
<§	setup	<iam< td=""><td></td><td></td><td></td></iam<>			
		ACM	>		
İ	ring	jing tone			
т9		<rel< td=""><td></td><td></td><td></td></rel<>			
		RLC	>		
1.	IAM with Red	lirection counter set to 5 (or	TSP_max_div if not equal	5).	
2.		call with cause 16 - Normal of			

TSS CDIV/	TP ISS_V_12_42	ISUP'97 reference 2.5.2.5.1.2 c)/Q.732 [27] ; 2.6/ EN 300 356-1 [5]	Selection expression DLE AND BCall PICS A.13/11	Q.788 [38] reference None
To verify that the IUT ca circuit correctly. The val- if the IUT was an interm Pre-test conditions	pagation delay determination n successfully divert a call an ue should be set to the receiv ediate exchange. UT so that called user has a	nd set the required propa ved value plus the propa	gation delay for the out	
SPC	SPA	SPB		
<-ACM {CDmo/NoInd <cpg< td=""><td><pre>}IAM(PDC=X+D)- <acm ringing <anm(chinf =="" pre="" x+<=""></anm(chinf></acm </pre></td><td>tone</td><td>riCdNb, RgNb)</td><td></td></cpg<>	<pre>}IAM(PDC=X+D)- <acm ringing <anm(chinf =="" pre="" x+<=""></anm(chinf></acm </pre>	tone	riCdNb, RgNb)	
2. The received	IAM contains an initial propa IAM should contain a propag I with Call history informatior	gation delay value increa		

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TSS CDIV/	TP ISS_V_12_43	ISUP'97 reference 2.6.3/Q.732 [27]	Selection expression DLE AND PICS A.3/3	Q.788 [38] reference None
Test purpose Call diversion - interaction	on with COLP cted number and the addition	anal connected number in	the concris number	received in an
	are passed on unmodified at		r die generic number	leceived in an
NOTE: The CON will	be mapped to an ANM.			
Pre-test conditions Arrange the data in the	IUT so that called user has a	ctivated diversion to an e	xternal exchange.	
Case a)			Ŭ	
SPC	SPA	SPB		
IAM	·>			
<-ACM{CDmo/NoInd}	IAM	-> (with RnInf, Or	iCdNb, RgNb)	
<cpg< td=""><td> <acm< td=""><td> RnNbRes</td><td></td><td></td></acm<></td></cpg<>	<acm< td=""><td> RnNbRes</td><td></td><td></td></acm<>	RnNbRes		
	ging tone			
<anm< td=""><td> <anm< td=""><td> ConNb, addConNb</td><td>in GenNb</td><td></td></anm<></td></anm<>	<anm< td=""><td> ConNb, addConNb</td><td>in GenNb</td><td></td></anm<>	ConNb, addConNb	in GenNb	
:				
1. The stimulus	ISUP will initiate a call set up	o with the expected signa	lling information.	
Send the Cor	Nb and addConNb in GenN	b from user at SPB.	-	
Case b)				
SPC	SPA	SPB		
IAM				
	IAM			
<anm< td=""><td>CON</td><td>- RnNbRes, ConNb,</td><td>addConNb in GenNb</td><td></td></anm<>	CON	- RnNbRes, ConNb,	addConNb in GenNb	
1. The stimulus	ISUP will initiate a call set up	o with the expected signa	lling information.	
Send the Cor	Nb and addConNb in GenN	b from user at SPB.		

TSS CDIV/	TP ISS_V_12_44	ISUP'97 reference 2.6.5/Q.732 [27]	Selection expression DLE AND PICS A.3/1	Q.788 [38] reference None
Test purpose				
Call diversion - interaction				
	ng exchange diverts the calli	ing party number and th	e additional calling num	nber in the
generic number.				
Pre-test conditions				
Arrange the data in the I	UT so that called user has a	ctivated diversion to an e	xternal exchange.	
SPC	SPA	SPB		
IAM	>			
<-ACM{CDmo/NoInd}-	IAM	-> (with RnInf, Or	iCdNb, RgNb)	
<cpg< td=""><td>- <acm< td=""><td>- RnNbRes</td><td></td><td></td></acm<></td></cpg<>	- <acm< td=""><td>- RnNbRes</td><td></td><td></td></acm<>	- RnNbRes		
rin	ging tone			
<anm< td=""><td>- <anm< td=""><td></td><td></td><td></td></anm<></td></anm<>	- <anm< td=""><td></td><td></td><td></td></anm<>			
1. The stimulus	ISUP will initiate a call set up	with CgPN and addCgP	'N in GenNb.	
NOTE: For the select information.	ion: Called party has to subs	scribe to CLIP, although c	liverted-to user benefic	iates of the

	TSS :DIV/	TP ISS_V_12_45	ISUP'97 reference 2.6.7/Q.732 [27]	Selection expression DLE AND PICS A.3/7	Q.788 [38] reference None
Test purpo					
Call divers	sion - interactio	on with CUG - CUG call no	ot diverted		
To verify t	hat a CUG cal	I with outgoing access not	allowed to a non-CUG use	r who has activated div	ersion is not
forwarded					
access		SPA	SPB		
		<iam (cug)<="" th=""><td> (-OA)</td><td></td><th></th></iam>	(-OA)		
		REL(#87)	->		
		<rlc< th=""><td></td><td></td><th></th></rlc<>			
1.	No call set up	should be observed on th	e access side.		
2.	Send an IAM	with ISUP preference indi	cator in the FCI set to "ISUI	P required all the way"	and CUG call
			outgoing access not allowed		
3.			of CUG". See also CUG tes		

TSS CDIV/	TP ISS_V_12_46	ISUP'97 reference 2.6.7/Q.732 [27]	Selection expression DLE AND PICS A.3/7	Q.788 [38] reference None
To verify that a CUG cal successful and that the Pre-test conditions	CUG restrictions are forwar	allowed to a CUG member		
SPC	SPA	SPB		
TAM (OTTO)	>IAM (CUG)			
IAM (CUG)	(,	> (-OA)		
	G call set up from SPC spec	cifying a CUG interlock code	e. The CUG call is wit	h outgoing

TSS CDIV/	TP ISS_V_12_47	ISUP'97 reference 2.6.17/Q.732 [27]	Selection expression DLE AND PICS A.3/8	Q.788 [38] reference None
To verify that the IUT do Pre-test conditions	on with SUB - old called part les not divert the called party	sub-address.		
SPC IAM <-ACM{CDmo/NoInd} <cpg ringi</cpg 	UT so that called user has a SPA IAM ACM .ng tone <anm< th=""><th>SPB with RnInf, OriCdN - RnNbRes</th><th>Ť</th><th></th></anm<>	SPB with RnInf, OriCdN - RnNbRes	Ť	
 If IUT diverts If the IUT doe 	ISUP will initiate a call set u the called party sub-address is not divert a sub-address ir anged the called party sub-a	s it's a "fail". n the ATP it's a "pass".		pass".

TSS CDIV/	TP ISS_V_12_48	ISUP'97 reference 2.6.17/Q.732 [27]	Selection expression DLE AND	Q.788 [38] reference None
			PICS A.3/8	
To verify that a new calle user at call diversion act diverted leg. Pre-test conditions	on with SUB - new called par ed party sub-address corresp ivation and shall be included UT so that called user has a	ponding to the diverted-to I in the access transport	parameter in the IAM	sent on the
510		SPB		
IAM> <-ACM{CDmo/NoInd}IAM>with RnInf, OriCdNb, RgNb <cpg <acm="" rnnbres<br=""> ringing tone <anm <anm<="" td=""></anm></cpg>				
	ISUP will initiate a call set up ged the called party sub-ado			

TSS CDIV/	TP ISS_V_12_49	ISUP'97 reference 2.7/Q.732 [27] ; 2.1.1.1/ EN 300 356-1 [5]	Selection expression DLE AND IWorkE	Q.788 [38] reference None
To verify that the IUT is the ISDN user part pref not required all the way" required all the way" Pre-test conditions Arrange the data in the routed to another signa Case a) SPC non-ISUP <iai< td=""><td>(10) then the call sho IUT so that the called user ha</td><td>rd call indicators is set f be diverted build be diverted build be rejected/released as activated diversion wit SPB</td><td>to "ISDN user part: I.</td><td></td></iai<>	(10) then the call sho IUT so that the called user ha	rd call indicators is set f be diverted build be diverted build be rejected/released as activated diversion wit SPB	to "ISDN user part: I.	
1. Assist a call 2. Initiate a call 3. The call shot Case b) SPC non-ISUP <iai< td=""> ACM</iai<>	set up from the UNI at SPB o set up specifying "ISDN user uld complete. For the non-ISL SPA ->ACM	n a non-ISUP route. r part not required all the JP side TUP messages h SPB 		
2. Initiate a call	set up from the UNI at SPB o set up specifying "ISDN user uld complete. SPA <iam REL <rlc< td=""><td>SPB ></td><td>y" in the FCI of the IAM</td><td>l.</td></rlc<></iam 	SPB >	y" in the FCI of the IAM	l.
2. Initiate a call	set up from the UNI at SPB o set up specifying "ISDN user ıld be released.		" in the FCI of the IAM.	

6.2.13 Call hold (HOLD)

TSS HOLD/	TP ISS_V_13_1	ISUP'97 reference 2.5.2.1.1.1; 2.5.2.1.1.2/ EN 300 356-20 [22]	Selection expression Local	Q.788 [38] reference 2.11.3
To verify that a call can with CPG messages hav Pre-test conditions	equested by the local user be placed on hold and can be ving the event indicator set	to "progress".		cations are sent
Pre-test conditions Arrange the data in the IUT so that the local user subscribes to the Call hold service. access SPA SPB <setupacm> ringing toneconnect>ANM> check communicationhold>CPG> check communication</setupacm>				
•	t on HOLD by the called part rieved by the called party.	у.		

TSS HOLD/	TP ISS_V_13_2	ISUP'97 reference 2.5.2.1.1.1; 2.5.2.1.1.2/ EN 300 356-20 [22]	Selection expression Local	Q.788 [38] reference 2.11.3
To verify that a call can		er be retrieved again by the re	emote user and that no	otifications are
<pre>sent with CPG messages. access SPA SPB <setup <acm=""></setup></pre>				
	It on HOLD by the remote u trieved by the remote user.			

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
HOLD/	ISS_V_13_3	2.2.1;	expression	reference
		2.5.2.1.1.1;	OLE and	2.11.1
		2.5.2.1.1.2/	PICS A.17/2	
		EN 300 356-20 [22]		
Test purpose				
Call hold after alerting, re	equested by the local user	r		
To verify that an outgoin	g call can be placed on H0	OLD after alerting has comn	nenced and can be ret	rieved
		are sent with CPG message		
Pre-test conditions		3	-	
Arrange the data in the I	UT so that the local user s	subscribes to the Call hold s	ervice.	
· ·		SPB		
setup	->IAM	->		
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
	ging tone			
rin	ging come			
	->CPG	->		
hold	5 5			
hold <answer< td=""><td>->CPG</td><td></td><td></td><td></td></answer<>	->CPG			

TSS HOLD/	TP ISS_V_13_4	ISUP'97 reference 2.2.1; 2.9/ EN 300 356-20 [22]	Selection expression OLE and PICS A.17/2	Q.788 [38] reference None
To verify that a held call Pre-test conditions	expiry of T9 while the call is of is released if it is not answe IUT so that the local user sub	red before expiry of T9 (wa	c <i>i</i>	
access	SPA	SPB		
setup	>IAM	>		
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
ri	nging tone			
hold	>CPG	>		
<disc< td=""><td>REL</td><td>></td><td></td><td></td></disc<>	REL	>		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
1. Call HOLD re	eceived.			
2. Cause #19: N	lo answer from user (user al	erted).		

TSS HOLD/	TP ISS_V_13_5	ISUP'97 reference 2.2.1; 2.5.2.1.1.1; 2.5.2.1.1.2/	Selection expression OLE and PICS A.17/1	Q.788 [38] reference 2.11.1		
		EN 300 356-20 [22]	FIC5 A.17/1			
Test purpose Call hold after IAM, local user requests HOLD for outgoing call To verify that an outgoing call can be placed on hold and can be retrieved afterwards by the local user and that notifications are sent with CPG messages. Pre-test conditions						
	IUT so that the local user sub	SPB	ervice.			
hold	>IAM >CPG	>				
	->CPG	·>				
	check communication					
ri	nging tone					
	communication					

TSS HOLD/	TP ISS_V_13_6	ISUP'97 reference 2.5.2.2.1; 2.5.2.3.1; 2.5.2.4.1/ EN 300 356-20 [22]	Selection expression IntermE	Q.788 [38] reference 2.11.3
party) and that the indication	ransit call) all can be placed on hold and ations are passed on transpa		y the served user (call	ed or calling
<acm rin <anm check CPG></anm </acm 	SPA S IAM> rging tone communication communication CPG> ck communication	hold		
2. The call is ret	t on HOLD by the calling use rieved by the calling user.			
IAM> <acm rin <anm check <cpg< td=""><td>ging tone communication communication</td><td>hold</td><td></td><td></td></cpg<></anm </acm 	ging tone communication communication	hold		
	t on HOLD by the called part rieved by the called party.	у.		

TSS HOLD/	TP ISS_V_13_7	ISUP'97 reference 2.2.2; 2.5.2.2.1; 2.5.2.3.1; 2.5.2.4.1/ EN 300 356-20 [22]	Selection expression IntermE	Q.788 [38] reference 2.11.1
	ransit call) all can be placed on hold afte I that the indications are pase			nd can be
<acm ring CPG> <anm check CPG></anm </acm 	SPA SI <acm< td=""> ring tone <acm< td=""> communication communication communication communication</acm<></acm<>	hold		
	t on HOLD by the calling par rieved by the calling party.	ty.		
Case b) SPC ACM r <cpg check <cpg check</cpg </cpg 		- hold		
	t on HOLD by the called part rieved by the called party.	y.		

TSS HOLD/	TP ISS_V_13_8	ISUP'97 reference 2.7/ EN 300 356-20 [22]	Selection expression IWorkE and PICS A.17/3	Q.788 [38] reference None
Test purpose	ntonuorlying with DOTN			
Call hold after answer, i				
To verify that an in-band	d indication is sent to the PS	TN subscriber if a call is p	laced on hold by the IS	SDN subscriber.
PSTN S	SPA SPB			
>	>IAM>			
<	- <acm< td=""><td></td><td></td><td></td></acm<>			
ri	nging tone			
<	- <anm< td=""><td></td><td></td><td></td></anm<>			
check c	communication			
<in-band indic<="" td=""><td>- <cpg< td=""><td></td><td></td><td></td></cpg<></td></in-band>	- <cpg< td=""><td></td><td></td><td></td></cpg<>			
1. Continue if an	n indication of in-band inform	ation is received.		

TSS HOLD/	TP ISS V 13 9	ISUP'97 reference 2.3/	Selection expression	Q.788 [38] reference
		EN 300 356-1 [5]	Local	2.11.4
Fest purpose				
Call hold after answer,	release of the call by the lo	ocal served user		
Fo verify that a call in th	ne held state can be releas	ed by the user who activate	d the Call hold service.	
Pre-test conditions				
Arrange the data in the	IUT so that the local user s	subscribes to the Call hold s	ervice.	
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>			
alert	>ACM	>		
	ringing tone			
connect	>ANM	>		
c	heck communication .			
hold	>CPG	>		
check no	through-connection			
disc	>REL	>		

1. The call is put on HOLD by the called party.

TSS HOLD/	TP ISS V 13 10	ISUP'97 reference 2.3/	Selection expression	Q.788 [38] reference
		EN 300 356-1 [5]	Local	2.11.5
Test purpose				
Call hold after answer, i	release of the call by the no	on-served user		
To verify that a call in th	e held state can be release	ed by the user who did not a	ctivate the Call hold se	ervice.
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>			
alert	>ACM	>		
	ringing tone			
connect	>ANM	>		
cł	neck communication .			
<hold< td=""><td> <cpg< td=""><td></td><td></td><td></td></cpg<></td></hold<>	<cpg< td=""><td></td><td></td><td></td></cpg<>			
disc	>REL	>		
1. The call is pu	t on HOLD by the called pa	arty.		

TSS HOLD/	IS	TP S_V_13_11	ISUP'97 reference 2.3/ EN 300 356-1 [5]	Selection expressior Local	
Test purpose Call hold after ale	0/	,		a lal a sur da sur del su	
To verify that a he	id call can be re	leased by the use	er who activated the Call	noid service withou	ut retrieving the call.
Pre-test condition	6	-	er who activated the Call ubscribes to the Call hold		ut retrieving the call.
Pre-test condition	6	-			ut retrieving the call.
Pre-test condition Arrange the data i access	s n the IUT so tha _{SPA}	-	ubscribes to the Call hold		ut retrieving the call.
Pre-test condition Arrange the data i access <setup< td=""><td>s n the IUT so tha SPA <</td><td>it the local user si</td><td>ubscribes to the Call hold SPB</td><td></td><td>ut retrieving the call.</td></setup<>	s n the IUT so tha SPA <	it the local user si	ubscribes to the Call hold SPB		ut retrieving the call.
Pre-test condition Arrange the data i access <setup alert</setup 	s n the IUT so tha SPA <	t the local user su	ubscribes to the Call hold SPB		ut retrieving the call.
Pre-test condition Arrange the data i access <setup alert</setup 	s n the IUT so tha SPA > ringing	t the local user su IAM ACM tone	ubscribes to the Call hold SPB >		ut retrieving the call.

TSS HOLD/	TP ISS_V_13_12	ISUP'97 reference 2.2.1; 2.5.2.5.1/ EN 300 356-20 [22]	Selection expression DLE	Q.788 [38] reference 2.11.1
Test purpose				
	requested by the remote us	ser		
0,	ng call can be placed on ho	old and can be retrieved after	rwards by the remote	user.
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>			
alert	>ACM	>		
1	ringing tone			
<hold< td=""><td> <cpg< td=""><td></td><td></td><td></td></cpg<></td></hold<>	<cpg< td=""><td></td><td></td><td></td></cpg<>			
<retrieve< td=""><td> <res< td=""><td></td><td></td><td></td></res<></td></retrieve<>	<res< td=""><td></td><td></td><td></td></res<>			

6.2.14 Call waiting (CW)

TSS CW/	TP ISS_V_14_1	ISUP'97 reference 1.5.2.1.1/ EN 300 356-20 [22]	Selection expression OLE	Q.788 [38] reference 2.10.1
Test purpose				
Call waiting indication in	ACM			
To verify that a call can	be successfully establishe	ed if the ACM indicates that it	is a waiting call.	
access	SPA	SPB		
setup	->IAM	>		
<alert< td=""><td> <acm< td=""><td></td><td></td><td></td></acm<></td></alert<>	<acm< td=""><td></td><td></td><td></td></acm<>			
	call waiting			

TSS CW/	TP ISS_V_14_2	ISUP'97 reference 1.5.2.1.1/ EN 300 356-20 [22]	Selection expression OLE	Q.788 [38] reference 2.10.1
Test purpose	-			
Call waiting indication in	n CPG			
		d if the CPG indicates that it	is a waiting call.	
	•			
access	SPA	SPB		
	SPA >IAM			
setup		>		
setup	>IAM	·>		

TSS CW/	TP ISS_V_14_3	ISUP'97 reference 1.5.2.2.1; 1.5.2.3.1; 1.5.2.4.1/ EN 300 356-20 [22]	Selection expression IntermE	Q.788 [38] reference 2.10.1
Test purpose				
Call waiting indication in	n ACM (transit)			
To verify that a call can	be successfully establishe	ed if the ACM indicates that it	is a waiting call.	
SPC	SPA S	SPB		
>IAM>	IAM>	>		
<acm< td=""><td><acm< td=""><td>_</td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td>_</td><td></td><td></td></acm<>	_		
Ca	all waiting			
	-			
1. Call waiting i	ndication is sent in ACM.			

TSS CW/	TP ISS_V_14_4	ISUP'97 reference 1.5.2.2.1; 1.5.2.3.1; 1.5.2.4.1/ EN 300 356-20 [22]	Selection expression IntermE	Q.788 [38] reference 2.10.1
Test purpose Call Waiting indication	in CPG (transit)			
To verify that a call can	be successfully established	d if the CPG indicates that it	is a waiting call.	
SPC S	PA SPI	В		
>IAM>	>IAM>			
<acm< th=""><td><acm< td=""><td>(NoInd)</td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td>(NoInd)</td><td></td><td></td></acm<>	(NoInd)		
<cpg< th=""><td><cpg< td=""><td>(Call waiting)</td><td></td><td></td></cpg<></td></cpg<>	<cpg< td=""><td>(Call waiting)</td><td></td><td></td></cpg<>	(Call waiting)		
1. Call waiting	indication is sent in CPG.			

TSS CW/	TP ISS_V_14_5	ISUP'97 reference 1.5.2.5.1/	Selection expression	Q.788 [38] reference
011/		EN 300 356-20 [22]	DLE	2.10.1
Test purpose				
Call waiting indication in	ACM or CPG			
	be successfully established i			
	currently busy, but answers t	he waiting call. The indica	ation shall be sent eithe	er in an ACM or
a CPG .				
Pre-test conditions				
Arrange the data in the I	UT so that the called user su	ubscribes to the call waitin	ng service with the noti	fication option.
access	SPA	SPB		
	<iam< td=""><td></td><th></th><td></td></iam<>			
alert>	•ACM>] repeat in ord	er to	
connect>	•ANM>] keep all B-ch	annels busy	
check co	mmunication			
<setup< td=""><td><iam< td=""><td></td><th></th><td></td></iam<></td></setup<>	<iam< td=""><td></td><th></th><td></td></iam<>			
(no chann	- /			
	> ACM>			
	(CPG>	call waiting .)	
connect>	•ANM>			
	munication			
<disc< td=""><td><rel< td=""><td></td><th></th><td></td></rel<></td></disc<>	<rel< td=""><td></td><th></th><td></td></rel<>			
	RLC>			
1. Set up calls o	n every B-channel busy.			
	ndication in ACM.			
	ndication in CPG.			
4. Release the c	calls in order to get an idle st	ate.		

TSS CW/	TP ISS_V_14_6	ISUP'97 reference 1.5.2.5.1/ EN 300 356-20 [22]	Selection expression DLE	Q.788 [38] reference 2.10.1
notification) and if he is o Pre-test conditions	be successfully establishe currently busy, but answer	d if the user has subscribe s the waiting call. No indica subscribes to the call wait	ation shall be sent to the	e calling user.
access <setup connect check <setup (no chann alert check</setup </setup 	- <iam >ACM >ANM communication - <iam< td=""><td><pre>>] repeat in ord >] keep all B-ch - > > -</pre></td><th></th><td></td></iam<></iam 	<pre>>] repeat in ord >] keep all B-ch - > > -</pre>		

	TSS	TP	ISUP'97 reference	Selection		
3.	Release the c	calls in order to get an idle st	ate.			
2.	No call waitin	g indication in ACM.				
Т.	Set up calls on every B-channel busy.					

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CW/	ISS_V_14_7	1.5.2.5.2/	expression DLE	reference
		EN 300 356-20 [22]		2.10.2
Test purpose				
Call waiting rejected				
To verify that the IUT se	nds a REL with cause #21 (o	call rejected) if a busy use	er rejects the waiting ca	dl.
Pre-test conditions				
Arrange the data in the	UT so that the called user su	ubscribes to the call waitin	ng service with the notif	fication option.
access	SPA	SPB		
<setup< td=""><td> <iam< td=""><td>]</td><th></th><td></td></iam<></td></setup<>	<iam< td=""><td>]</td><th></th><td></td></iam<>]		
alert	->ACM	>] repeat in	order to	
connect	->ANM	>] keep all B	-channels busy	
	heck communication			
<setup< td=""><td> <iam< td=""><td></td><th></th><td></td></iam<></td></setup<>	<iam< td=""><td></td><th></th><td></td></iam<>			
(no chann				
alert	->ACM	> call waiti:	ng	
	(CPG		ng)	
	->REL			
<release< td=""><td> <rlc< td=""><td></td><th></th><td></td></rlc<></td></release<>	<rlc< td=""><td></td><th></th><td></td></rlc<>			
1. Set up calls c	n all B-channels.			
2. Call waiting ir	ndication in ACM.			
3. Call waiting ir	ndication in CPG.			
•	alls in order to get an idle st	ate.		

TSS CW/	TP ISS_V_14_8	ISUP'97 reference 1.5.2.5.2/ EN 300 356-20 [22]	Selection expression DLE	Q.788 [38] reference 2.10.3
To verify that the IUT s answer the waiting call Pre-test conditions		no answer from user, use		
Ŭ	IUT so that the called user s		ng service with the noti	fication option.
access	SPA <iam< td=""><td>SPB</td><td></td><td></td></iam<>	SPB		
-	<acm< td=""><td></td><td>dom to</td><td></td></acm<>		dom to	
	->ANM	-	nanneis busy	
	check communication			
<setup< td=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></setup<>	<iam< td=""><td></td><td></td><td></td></iam<>			
	ACM	5		
	(CPG T9	> call waiting)		
<disconnect< td=""><td>REL</td><td>></td><td></td><td></td></disconnect<>	REL	>		
0	indication in ACM. indication in CPG.			

6.2.15 Completion of calls to busy subscribers (CCBS)

TSS CCBS-ISUP/	TP ISS_V_15_1	ISUP'97 reference 3.4.2.1.1; 3.5.3.1.1/ EN 300 356-18 [20]	Selection expression OLE	Q.788 [38] reference None
in the IAM to "ISDN Use Pre-test conditions	tor in the CCBS call BS call, the IUT sets the ISU r Part required all the way". UT such that the calling use			
access setup	SPA >IAM <rel< td=""><td>SPB ></td><td>supplementary service</td><td>5.</td></rel<>	SPB >	supplementary service	5.
<recall< td=""><td></td><td>ction</td><td></td><td></td></recall<>		ction		
:	>IAM	_	d all the way	
 User at SPB i Check that use 	to busy user at SPB. s found busy. ser at SPB becomes free by h "ISDN User Part required.			n.

TSS CCBS-ISUP/	TP ISS_V_15_2	ISUP'97 reference 3.4.2.1.3/ EN 300 356-18 [20]	Selection expression OLE	Q.788 [38] reference None
as "CCBS call". Pre-test conditions	S call, the IUT includes ir	the IAM the CCBS call inc		
	SPA	SPB	supplementally certic	
setup	>IAM	>		
<disconnect< td=""><td>- <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	- <rel< td=""><td></td><td></td><td></td></rel<>			
	RLC			
TCAP	transaction			
	>IAM	>		
:		CCBS call		
· diggonpogt	- <rel< td=""><td></td><td></td><td></td></rel<>			
	KEL			
 User at SPB is Check that use 	r at SPB becomes free by	y using the RemoteUserFre	ee CCBS ASE operatio	n.
4. Check Indication	on "CCBS call" in the IAM			

TSS CCBS-ISUP/	TP ISS_V_15_3	ISUP'97 reference 3.5.1.1.1.1/ EN 300 356-18 [20]	Selection expression OLE	Q.788 [38] reference None
Test purpose CCBS call with retained I	haaia aall informaatian			
	asic call information 3S call, the IUT includes the	rotained call information	in the IAM:	
User service informatio				
User service informatio	,			
	called party sub-address);			
Called party number.	salica party sub address),			
Pre-test conditions				
	JT such that the calling use	r subscribes to the CCBS	and such that the rele	vant call
5	ested may be provided by the			
access	SPA SI	Ŭ		
setup:	>IAM	->		
<disconnect< td=""><td>- <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	- <rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	->		
TC	AP transaction			
<recall< td=""><td></td><td></td><td></td><td></td></recall<>				
setup CCBS call	->IAM	-> ISUP required	all the way	
:				
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
1. Set up a call w	ith LICI LICID ATD and/or (CdDN which approximators	upor at CDD buoy activ	votoo TCAD and
•	vith USI, USIp, ATP and/or (Curin, which encounters	user at SFD busy, activ	ales ICAF and
torminatos tha				
terminates the	v am			
2. User at SPB is	s found busy.	using the Remotel IserFra	e CCBS ASE operatio	n
 User at SPB is Check that use 	v am			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CCBS-ISUP/	ISS_V_15_4	3.5.1.1.1.1; 3.6.13/	expression OLE AND PICS	reference None
		EN 300 356-18 [20]	A.18/3	None
Test purpose			741070	
	call information & interaction	ons with other supplementa	ary services	
	BS call, the IUT includes the			
Calling party number (
Access transport (e.g.	calling party sub-address if	supported);		
UUS1,2,3 (retained requ	lest if supported);			
UUS1 (information giver	n by user in response to CC	BS recall, if supported);		
Optional forward call in	ndicator (with COLP reque	st).		
Pre-test conditions				
	IUT such that the calling use			
information for the applic	cable supplementary service	<u> </u>	e calling user (e.g. SUB	, COLP).
access	SPA	SPB		
	>IAM			
<disconnect< td=""><th> <rel< th=""><td></td><td></td><td></td></rel<></th></disconnect<>	<rel< th=""><td></td><td></td><td></td></rel<>			
	RLC	>		
TCAP	v transaction			
	IAM	> ISUD require	d all the way	
:		> isor require	u all the way	
<disconnect< td=""><th> <rel< th=""><td></td><td></td><td></td></rel<></th></disconnect<>	<rel< th=""><td></td><td></td><td></td></rel<>			
UUS1, 2, 3 (r	with Calling party number (i etained request if supported OFCI (with COLP request) call.	d) UUS1 (information giver	n by user in response to	CCBS recall,
2. User at SPB	is found busy.			
	ser at SPB becomes free by	using the RemoteUserFr	ee CCBS ASE operation	on.
	th "ISDN User Part required			
about ATP, U	US1,2,3 request, UUI in CC	CBS recall and CdPN shall	be checked too.	

TSS CCBS-ISUP/	TP ISS_V_15_5	ISUP'97 reference 3.5.3.2.1; 3.5.3.3.1; 3.5.3.4.1/ EN 300 356-18 [20]	Selection expression IntermE	Q.788 [38] reference None
Test purpose Transit support of dia	gnostics field in REL			
		ation field in alcoling of the OODO is		
-	is able to pass the diagno	stics field including the CCBS in	ndicator transparently	to the
-	SPA	STICS TIELD INCLUDING THE CCBS II	ndicator transparently	to the
preceding exchange. SPC		SPB	ndicator transparently	to the
preceding exchange. SPC <iam< td=""><td>SPA</td><td>SPB</td><td>ndicator transparently</td><td>to the</td></iam<>	SPA	SPB	ndicator transparently	to the
preceding exchange. SPC <iam REL</iam 	SPA <iam< td=""><td>SPB </td><td>ndicator transparently</td><td>[,] to the</td></iam<>	SPB 	ndicator transparently	[,] to the

TSS CCBS-ISUP/	TP ISS_V_15_6	ISUP'97 reference 3.5.3.2.1; 3.5.3.3.1; 3.5.3.4.1/ EN 300 356-18 [20]	Selection expression IntermE	Q.788 [38] reference None
Test purpose				
Transit support of CCBS				
To verify that the IUT is	able to pass CCBS paran	neter transparently to the suc	ceeding exchange.	
	PA	SPB		
IAM>	IAM	-> CCBS parameter		
1. Set up a CCE	S call to user at SPB.			
Check that C	CBSpar is received.			

TSS CCBS-ISUP/	TP ISS_V_15_7	ISUP'97 reference 3.4.2.1.2/ EN 300 356-18 [20]	Selection expression DLE	Q.788 [38] reference None
	able to generate in a REL r	nessage with cause #17 "L ith a "CCBS possible" indic		circuit available
access set the destination B busy		SPB		
user busy <disconnect< td=""><td><iam REL <rlc REL</rlc </iam </td><td>> </td><td></td><td></td></disconnect<>	<iam REL <rlc REL</rlc </iam 	> 		
1.UNI at SPA be2.Check that "C3.Release the b	ecomes busy. CBS possible" is received	in the release message wit	th cause value #17 or #	# 34.

TSS CCBS-ISUP/	TP ISS_V_15_8	ISUP'97 reference 3.4.2.1.3/ EN 300 356-18 [20]	Selection expression DLE	Q.788 [38] reference None
Test purpose CCBS parameter in the C To verify that the IUT is a IAM coded as "CCBS call	ble to terminate the CCB	S call, with the CCBS call in	ndicator in the CCBS	parameter in the
access	SPA	SPB		
set the destination	n B busy			
	<iam< th=""><th> normal call</th><th></th><td></td></iam<>	normal call		
	REL	> CCBS possible		
	<rlc< th=""><th></th><th></th><td></td></rlc<>			
	TCAP transac	tion		
user frees resource	s			
	RemoteUserFree to esource(s) still a	CCBS call (& reserve vailable	e resource)	
<setup< td=""><th> <iam< th=""><th> CCBS call</th><th></th><td></td></iam<></th></setup<>	<iam< th=""><th> CCBS call</th><th></th><td></td></iam<>	CCBS call		
alert	->ACM	>		
connect	->ANM	>		
<disc< td=""><th> <rel< th=""><th></th><th></th><td></td></rel<></th></disc<>	<rel< th=""><th></th><th></th><td></td></rel<>			
1. UNI at SPA be	comes busy.			
	, ,	the RemoteUserFree CCBS	S ASE operation.	
	3S call specified in the IA			
Check that the	call is terminated (ANM,	CON,).		

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
CCBS-ISUP/	ISS_V_15_9	3.5/	expression	reference
		EN 300 356-18 [20]	DLE	None
Test purpose				
CCBS not possible to de	estination B			
To verify that the IUT is a	able to generate in a REL m	essage with cause #17 "l	Jser busy" or cause #3	34 "No circuit
available" the diagnostic	s field containing a CCBS in	dicator with a "CCBS not	possible" indication.	
NOTE: CCBS is not p	possible because e.g. the qu	eue is set to zero or filled	up or due to maintena	ance reasons.
Pre-test conditions			•	
Arrange the data in the I	UT such that CCBS for dest	ination B is not possible		
access	SPA SPB	·		
set the destinati	on			
B busy				
user busy	<iam< td=""><td></td><td></td><td></td></iam<>			
	REL>			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
<disconnect< td=""><td><rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC>			
1. Set up a call t	o busy user at SPA.			
2. Check that "C	CBS not possible" is receive	ed in the release message	e with cause value #17	' or #34.
Release the b	ousy call.			

TSS CCBS-ISUP/	TP ISS_V_15_10	ISUP'97 reference 3.6.10.2.2 c); 3.5.3.5.2 c)/ EN 300 356-18 [20]	Selection expression DLE and PICS A.18/1	Q.788 [38] reference None
To verify that the IUT se	nrrival of CCBS call -Interaction nds a REL with cause #17 o he original request in the que	r #34 and diagnostics "Co		
access set the destinati B busy user busy <disconnect< td=""><td>SPA .on IAM REL <rlc RLC</rlc </td><td>> </td><td></td><td></td></disconnect<>	SPA .on IAM REL <rlc RLC</rlc 	> 		
	to busy user at access. CCBS possible" is received ir busy call.	the release message wit	h cause value #17 or #	<i>‡</i> 34.

TSS CCBS-ISUP/	TP ISS_V_15_11	ISUP'97 reference 3.6.10.2.2 c);	Selection expression	Q.788 [38] reference
		3.5.3.5.2 c)/ EN 300 356-18 [20]	DLE AND NOT PICS A.18/1	None
To verify that the IUT se compatible.	rrival of CCBS call - Interactands a REL with cause #17 or resources for the original rec	r #34 with diagnostics "C	CBS possible" when the	e terminals are
access	SPA SP	•	00001040000	
set the destinati				
B busy				
user busy	<iam< td=""><td></td><td></td><td></td></iam<>			
_	REL>	CCBS possible		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
TCA	P transaction			
	RemoteUser	Free		
user busy again	<iam< td=""><td>CCBS call</td><td></td><td></td></iam<>	CCBS call		
	REL>	CCBS possible		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
<disconnect< td=""><td><rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC>			
	o busy user at access.			
2. CCBS call.				
3. Check that "C	CBS possible" is received in	the release message wi	th cause value #17 or #	34.

TSS CCBS-ISUP/	TP ISS_V_15_12	ISUP'97 reference 3.7.10.2.2 c)/ EN 300 356-18 [20]	Selection expression DLE AND PICS A.18/9	Q.788 [38] reference None
Test purpose				
	call - Interaction with CFB	the IAM if the CCDC cal	lic forwarded by the in	itially by average
-	eletes the CCBS parameter in	n the IAW If the CCBS cal	i is forwarded by the in	intially busy user.
Pre-test conditions	ist subscribe to and activate	CED to an avtarnal upor	while the recall timer is	Rupping
	ust subscribe to and activate	CFB to an external user	while the recall timer is	running
(CCBS-T9).				
	SPA SPB			
IAM>	. 1,			
<rel< td=""><td></td><th></th><th></th><td></td></rel<>				
RLC>				
•	tivates CDIV while CC	,		
	> CF	'B		
with CCBSpar	no CCBSpar			
1. Set up a call	to busy user at SPA.			
Check that no	CCBSpar is received in the	IAM.		

TSS CCBS-ISUP/	TP ISS_V_15_13	ISUP'97 reference 3.5.3.5.1/ EN 300 356-18 [20]	Selection expression DLE AND PICS A.18/6	Q.788 [38] reference None
Test purpose				
	CBS request queue entries o			
	pports the maximum numbe			
access	SPA	SPB		
set the destinati	on			
B busy				
user busy	<iam></iam>			
	<rlc></rlc>			
	TCAP transactio	מר		
Repeat more	than 5 set up to busy			
:				
<disconnect< td=""><th>REL</th><th></th><th></th><th></th></disconnect<>	REL			
	RLC>			
1. Set up a call	to busy user at access.			
2. Send maximu	im number of CCBS request	s and check that user at \$	SPA becomes free by ι	using the
RemoteUser	Free CCBS ASE operation.			
3. One more IAI	M after the maximum numbe	r of calls is reached at SF	PA.	
	ot CCBS possible" is receive	ed in the REL with cause	value #17 or #34.	
5. Release the k				
	maximum 5 different) from S	PB to SPA which encoun	ters user at SPA busy.	Activate CCBS
for the differe				
	requests maximum allowed			
8. Received RE	L with cause value #17 or #3	34.		

TSS CCBS-ISUP	/ TP ISS_V_15_14	ISUP'97 reference 3.5.3.5.1/ EN 300 356-18 [20]	Selection expression DLE	Q.788 [38] reference None
Test purpose				•
	BS call with identical service	e requirements released		
To verify that the	UT, having an entry in the C	CCBS queue, releases a second	incoming call if the se	ervice
		o the entry being processed and		
	ginal request remains in the			
Pre-test condition		•		
Arrange the data	n the IUT so that there are f	free resources in addition to the r	esource reserved for	the first CCBS
request.				
access	SPA	SPB		
set the desti	nation			
B busy				
user busy		1 st call		
		> CCBS possible		
	<rlc< th=""><th></th><td></td><td></td></rlc<>			
	. TCAP transaction			
user frees re				
		l (& reserve resource		
resou	rce(s) still availab	le for potential 2 nd call		
		2 nd . independent ca		
		> released because id	lentical require	ments
	<rlc< th=""><th></th><td></td><td></td></rlc<>			
•••	check TCAP transactio	on		
1		agt and a g		
	<lam< th=""><th> 1st. CCBS call (emp</th><td>ty queue)</td><td></td></lam<>	1 st . CCBS call (emp	ty queue)	
	Continue (CCBS call 1 st call.		
1 Cottin	a 1 st call to buoy upor at a c			
	a 1 st call to busy user at acc			
		e value # 17 or # 34 (1 st call).	ACE operation	
		using the RemoteUserFree CCBS the same requirement to the one b		up to the same
4. Proces remote		e same requirement to the one b	enig processed) set	up to the same
		cause #17 or # 34 (2 nd call).		
	le the 1 st CCBS call in order			
7. Continu	ie the 2 nd CCBS call in orde	r to get an idle state.		
		a to get an iule state.		

TSS CCBS-ISUP/	TP ISS_V_15_15	ISUP'97 reference 3.5.3.5.1/ EN 300 356-18 [20]	Selection expression DLE	Q.788 [38] reference None
To verify that the IUT, ha	I with not identical service re aving a queue entry in the C ond call are not identical to t	CBS queue, accepts a se		
	equest remains in the queue	Э.		
Pre-test conditions Arrange the data in the request.	UT so that there are free read	sources in addition to the I	resource reserved for	the first CCBS
access	SPA	SPB		
set the destination B busy	'n			
user busy user frees resource	<iam REL <rlc TCAP transact:</rlc </iam 	> CCBS possible		
<setup alert connect <disc< td=""><td>RemoteUserFree to 1st resource(s) still ava <iam >ACM <rel .continue with the 1st</rel </iam </td><th>ailable for potentia - 2nd. independent > -</th><td>al 2nd call</td><td></td></disc<></setup 	RemoteUserFree to 1 st resource(s) still ava <iam >ACM <rel .continue with the 1st</rel </iam 	ailable for potentia - 2 nd . independent > -	al 2 nd call	
 Check releas Check that re Process a se Check that th 	to busy user at access. e message with cause value mote user is free by using t cond non-identical (without t e call is accepted (ANM, CC P dialogue for the 1 st call.	he RemoteUserFree CCB he same requirement to the		ed) set up.

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6.2.15.1	CCBS Application Service Element (ASE)
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TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CCBS-ASE/	ISS_TC_V_15_1	3.5.1.1.1.1/	expression OLE	reference
		EN 300 356-18 [20]		None
Test purpose				
	S REQUEST class 1 operat			
	n successfully perform a CC			
NOTE 1: Send a Ccbs	Request invoke to the DLE	by using the TCAP primi	tive TC-BEGIN reques	t(TC-INVOKE
request).				
NOTE 2: Receive a Cc	bsRequest return result from	om the DLE in a TC-CON	TINUE indication(TC-	INVOKE
indication).				
Pre-test conditions				
Arrange the data in the I	UT such that the calling use	r subscribes to the CCBS	supplementary service	Э.
access	SPA	SPB		
setup	->IAM	>		
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	> (normal call,	user at SPB busy	·)
	. TCAP transaction .			
start CCBS-T1 -	-			
<ccbs act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccbs>				
CCBS Act respons	e>			
stop CCBS-T1				
start CCBS-T2	xxxxTC_BEGIN_REQ			
stop CCBS-T2	<tc_continue_ii< td=""><td>NDx</td><td></td><td></td></tc_continue_ii<>	NDx		
start CCBS-T3				
:		77		
	->IAM	> CCBS call		
:				
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
<u> </u>				
	ide activates CCBS.			
	uest invocation is received.	11		
	PB is now free for a CCBS of			
 CCBS call set 	t up with "ISDN User Part re	quired all the way" in the	FUT of the IAM.	

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CCBS-ASE/	ISS_TC_I_15_2	3.5.1.1.1.2/	expression	reference
		EN 300 356-18 [20]	OLE	None
Test purpose				
Ability to perform a CCB	S REQUEST class 1 operat	ion - unsuccessful		
To verify that if a failure	occurs (short or long term de	enial) while invoking a CC	BS REQUEST operation	on, the IUT is
able to indicate the resul	It to the calling user.			
NOTE 1: Send a Ccbs	Request invoke to the DLE	by using the TCAP primit	ive TC-BEGIN reques	t(TC-INVOKE
request).	•	, , , , , , , , , , , , , , , , , , , ,	•	,
NOTE 2: Receive a Cc	bsRequest return error fro	m the DLE in a TC-END i	ndication(TC-U-ERRO	DR indication).
Pre-test conditions	•		,	,
Arrange the data in the I	UT such that the calling use	r subscribes to the CCBS	supplementary service	Э.
access	SPA	SPB		
setup	>IAM	>		
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	> (normal call,	user at SPB busy	•)
	TCAP transac	ction		
start CCBS-T1 -	-			
<ccbs act="" reques<="" td=""><td>t</td><td></td><td></td><td></td></ccbs>	t			
CCBS Act respons	e>			
stop CCBS-T1				
start CCBS-T2	XXXXXTC_BEGIN_RE	EQxxxx->		
stop CCBS-T2	<tc_end_indxx< td=""><td>xxxxxxx</td><td></td><td></td></tc_end_indxx<>	xxxxxxx		
	ide activates CCBS.			
2. The CcbsRec	uest invocation is received.			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CCBS-ASE/	ISS_TC_V_15_3	3.5.1.2.1.1/	expression	reference
		EN 300 356-18 [20]	OLE	None
Test purpose				
	BS CANCEL class 4 operation			
	n successfully perform a dea			
NOTE: Send a Ccbs	Cancel invoke without canc	celCause to the DLE by us	sing the TCAP primitive	e TC-END
request(TC-I	NVOKE request).			
Pre-test conditions				
Arrange the data in the I	UT such that the calling use	er subscribes to the CCBS	supplementary service	э.
access	SPA	SPB		
T	>IAM			
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
		> (normal call,	user at SPB busy	7)
	TCAP transact	ion		
start CCBS-T1 -				
<-CCBS Act request				
CCBS Act respons	e>			
stop CCBS-T1				
start CCBS-T2	~			
stop CCBS-T2	<tc_continue_i< td=""><td>NDxx</td><td></td><td></td></tc_continue_i<>	NDxx		
start CCBS-T3				
<ccbs deact="" requ<="" td=""><td></td><td></td><td></td><td></td></ccbs>				
CCBS Deact respo				
	XXTC_END REQXXXX	>		
stop CCBS-T3				
1. The access s	ide activates and deactivate	s CCBS.		
Check that th	e CcbsRequest invocation is	s received.		

TSS TP **ISUP'97** reference Q.788 [38] Selection CCBS-ASE/ ISS_TC_V_15_4 3.5.3.1.1/ expression reference EN 300 356-18 [20] OLE None Test purpose Ability to indicate a CCBS recall to the calling user To verify that the IUT can successfully initiate a CCBS recall to the calling user: NOTE: Receive a RemoteUserFree invoke from the DLE in a TC-CONTINUE indication(TC-INVOKE indication) Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service. SPB access SPA -----> ---->IAM----> <----REL-----<----disconnect---------> (normal call, user at SPB busy) ... TCAP transaction ... start CCBS-T1 ___ <--CCBS Act request-----CCBS Act response--> stop CCBS-T1 start CCBS-T2 xxxxTC_BEGIN_REQxxxx--> stop CCBS-T2 <--TC_CONTINUE_INDxxxx start CCBS-T3 <---CCBS recall act--------CCBS recall----> -----IAM-----> CCBS call : <----REL-----The access side activates CCBS request and CCBS recall. 1. Check that the CcbsRequest invocation is received. 2. 3. The user at SPB is now free for a CCBS call. Check that CCBS call with "ISDN User Part required all the way" in the FCI of the IAM. 4.

TSS			reference	Selection	Q.788 [38]
CCBS-ASE/	ISS_TC_I_15_5		3.1.1/ 56-18 [20]	expression OLE	reference None
Test purpose					
	destination B becomes free				
To verify that the IUT ca	in act correctly after receipt of	of the indicat	ion that destir	nation B is free but call	ing user A is still
busy:	, i				0
	emoteUserFree invoke from	the DLE in	a TC-CONTIN	NUE indication(TC-IN	VOKE
indication).					-
NOTE 2: Notify the call	ling user A.				
	uspend invoke in a TC-COI	NTINUE rea	uest(TC-INV	OKE request) to the DL	.E.
	end CcbsResume invoke in				
calling user b				. e e <u>=</u> .eq.ee., .	
Pre-test conditions					
	IUT such that the calling use	r subscribes	to the CCBS	supplementary service	e
access	SPA	SPB	10 110 0000	ouppionionary ourvio	0.
	>IAM				
	<rel< td=""><td></td><td></td><th></th><td></td></rel<>				
	RLC		ormal call	, user at SPB bus	sv)
	TCAP transact	•	JIMAI CAII	, aber at bib bac	,
start CCBS-T1 -					
<ccbs act="" reques<="" td=""><td>st</td><td></td><td></td><th></th><td></td></ccbs>	st				
CCBS Act respons					
stop CCBS-T1					
start CCBS-T2	XXXXTC_BEGIN_RI	EOxxxx->			
stop CCBS-T2	<tc continue<="" td=""><td></td><td>CcbsRequ</td><th>est return result</th><td></td></tc>		CcbsRequ	est return result	
start CCBS-T3			1		
	<tc_continue< td=""><td>TNDxxxx</td><td>RemoteUs</td><th>erFree</th><td></td></tc_continue<>	TNDxxxx	RemoteUs	erFree	
stop CCBS-T3	10_0000111001		1101110 0000	011100	
arrange user to be	2				
found busy	xxxxTC_CONTINU	E REO>	CcbsSusp	end	
or CCBS busy		£			
Receive notifica	ation that				
the user at SPB is	now free,				
Send no response	-				
User A is now fr					
	xxxTC_CONTINUE	_REQ>	CcbsResu	me	
1. The access s	ide activates CCBS.				
	e CcbsRequest invocation is	received			
	SPB is now free for a CCBS (
	P dialogue in order to get an				
	alaloguo in oraor to got an	initial otato.			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]			
CCBS-ASE/	ISS_TC_V_15_6	3.1.3 m)/	expression	reference			
CCB3-A3E/	135_10_v_15_0		Local AND PICS	None			
		EN 300 356-18 [20]		None			
			A.18/1				
Test purpose							
Support of the retain opt							
	rforms the retain option by s		ed parameter to TRUE	or FALSE in			
	the CcbsRequest return re	esult.					
Pre-test conditions for O	==						
	UT such that the calling use	er subscribes to the CCBS	supplementary service	Э.			
Case a)							
access	SPA	SPB					
	->IAM						
<disconnect-< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect-<>	<rel< td=""><td></td><td></td><td></td></rel<>						
	RLC	(user at SPB busy	.)			
	TCAP transa	ction					
start CCBS-T1 -	-						
<ccbs act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccbs>							
CCBS Act respons	e>						
stop CCBS-T1							
start CCBS-T2		Qxxxx-> retainSupp					
stop CCBS-T2	<tc_continue_< td=""><td>INDxxxx retainSupp</td><td>orted=TRUE</td><td></td></tc_continue_<>	INDxxxx retainSupp	orted=TRUE				
start CCBS-T3							
1. The access s	ide activates CCBS.						
	e CcbsRequest invocation is		pported =TRUE".				
End the TCAF	D dialogue in order to get an	i initial state.					
Case b)							
access	SPA	SPB					
set the destin	ation						
B busy							
	<iam< td=""><td></td><td></td><td></td></iam<>						
user busy	REL	>					
	<rlc< td=""><td></td><td></td><td></td></rlc<>						
	TCAP transaction						
	<tc_begin_reqx:< td=""><td colspan="6"><tc_begin_reqxxxx retainsupported="TRUE</td"></tc_begin_reqxxxx></td></tc_begin_reqx:<>	<tc_begin_reqxxxx retainsupported="TRUE</td"></tc_begin_reqxxxx>					
	xxxTC_CONTINUE_I	ND-> retainSupporte	d=TRUE				
user free	<rel< td=""><td></td><td></td><td></td></rel<>						
	RLC	>					
1. UNI at SPA b	ecomes busy.						
	e CcbsRequest invocation is	s received with "RetainSu	pported =TRUE".				
 Free destination 	•		-				
TSS CCBS-ASE/	TP ISS_TC_V_15_7	ISUP'97 reference 3.5.1.1.1.1/ EN 300 356-18 [20]	Selection expression OLE AND PICS A.18/2	Q.788 [38] reference None			
---	---	---	---	---------------------------------			
Test purpose							
	tstanding CCBS requests of						
is reached.	es not send any CcbsRequ	est to the DLE if the max	imum number of outsta	naing requests			
Pre-test conditions							
	UT such that the calling use	r subscribes to the CCBS	supplementary service	2			
access	SPA	SPB	supplementary service				
	IAM	>					
<disconnect-< td=""><td> <rel< td=""><th></th><th></th><th></th></rel<></td></disconnect-<>	<rel< td=""><th></th><th></th><th></th></rel<>						
	RLC	> (normal call,	user at SPB busy	·)			
	TCAP transactio	on					
start CCBS-T1 -	-						
<ccbs act="" reques<="" td=""><td></td><th></th><th></th><th></th></ccbs>							
CCBS Act respons	e>						
stop CCBS-T1 start CCBS-T2	XXXXTC BEGIN RE() ×					
stop CCBS-T2	<tc_continue_]< td=""><th>.</th><th>est return result</th><th></th></tc_continue_]<>	.	est return result				
start CCBS-T3	<pre><==ic_continoe_1</pre>	INDXXXX CCDSREQU	est recurn resurt				
	ate CCBS request unti	l the maximum					
4	BS request supported						
check that n	o CCBS request is ser	nd after the specif	ied number of ent	ries			
1. The access s	ide activates CCBS.						
	TC_BEGIN_REQ is sent af						
	fails if the maximum numbe	r of outstanding requests	is reached and CcbsR	equest is			
received.							
4. End the TCA	P dialogue in order to get an	initial state.					

TSS	6	ТР	ISUP'97 reference	Selection	Q.788 [38]
CCBS-A	ASE/	ISS_TC_I_15_8	3.5.1.1.2.2; 3.5.3.5.1;	expression	reference
			3.5.5.4/	DLE AND PICS	None
			EN 300 356-18 [20]	A.18/6	
Test purpose					
		ue entries CCBS requests			
To verify that	the IUT ser	nds a CcbsRequest return	error to the OLE if the ma	aximum number of que	eue entries is
reached.					
NOTE: Se	nd CcbsRe	quest return error in TC-EN	D request(TC-INVOKE re	quest).	
access		SPA	SPB		
set the	destinat	ion			
B busy					
		<iam< td=""><td></td><th></th><td></td></iam<>			
User busy		REL			
		<rlc< td=""><td></td><th></th><td></td></rlc<>			
		TCAP transact			
		<xxtc_begin_< td=""><td>~</td><th>_</th><td></td></xxtc_begin_<>	~	_	
		XXTC_CONTINUE_1	-	st return result	
		-	activate CCBS requ		
			the maximum number		
		-	supported by the		
			ched (fill up the q	ueue)	
TT		<iam< td=""><td></td><th></th><td></td></iam<>			
User busy		REL <rlc< td=""><td></td><th></th><td></td></rlc<>			
		<rlc <xxtc begin<="" td=""><td></td><th></th><td></td></xxtc></rlc 			
		XXXXTC END INI	- ~	est return error	
		XXXXIC_END_INI	-	ng term denial)	
User free		<rel< td=""><td></td><th>ing cerm denirar,</th><td></td></rel<>		ing cerm denirar,	
USEL LICE		RED			
		itile	-		
1. UN	II at SPA he	ecomes busy.			
		destination B busy.			
	0	CBS possible" is received ir	the release message wit	h cause value # 17 or	#34
		bsRequest return error is re			
	e destinatio	•			

TSS CCBS-ASE/	TP ISS_TC_V_15_9	ISUP'97 reference 3.5.5.4/ EN 300 356-18 [20]	Selection expression Local	Q.788 [38] reference None
Test purpose		•		<u>.</u>
Ability to end a dialogue				
To verify that the IUT ca	n end a TCAP dialogue afte	er a successful CCBS call.		
NOTE: Send a TC-EI	ND request without compor	nent primitive upon sendin	g of the ACM, CPG o	r CON .
Pre-test conditions for O	LE			
Arrange the data in the I	UT such that the calling use	er subscribes to the CCBS	supplementary servi	ce.
access	SPA	SPB		
set the destinati	on			
B busy				
	<iam< td=""><td></td><td></td><td></td></iam<>			
User A busy	REL	>		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transact	ion		
	<xxtc_begin_< td=""><td>REQx</td><td></td><td></td></xxtc_begin_<>	REQx		
	xxTC_CONTINUE_I	ND> CcbsRequest	return result	
:				
	XXTC_CONTINUE_I	ND> RemoteUserFr	ee	
:				
<set td="" up<=""><td> <iam< td=""><td></td><td></td><td></td></iam<></td></set>	<iam< td=""><td></td><td></td><td></td></iam<>			
	ACM	>		
	xxxxTC_END_IND-	>		
:				
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
1. UNI at SPA b	ecomes busy.			
2. Check that a	TC_END_IND primitive with	nout component is received	d in order to end the C	CCBS operation

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
CCBS-ASE/	ISS_TC_V_15_10	3.7.1/	expression OLE	reference
	100_10_10_10	EN 300 356-18 [20]	AND PICS A.18/7	None
Test purpose			AND TIOU ANON	Hone
	ementary service even if no o	diagnostics is received in	the release message	
	ends a CcbsRequest invoke			
Pre-test conditions				
	IUT such that the calling use	r subscribes to the CCBS	supplementary service	د
access	SPA	SPB	supplementary service	<u>/·</u>
	>IAM			
	<rel< td=""><td></td><td></td><td></td></rel<>			
	BLC		user at SPB busy	·)
	TCAP transaction			/
start CCBS-T1 -				
<ccbs act="" reques<="" td=""><td>st</td><td></td><td></td><td></td></ccbs>	st			
CCBS Act respons	Se>			
stop CCBS-T1				
start CCBS-T2	XXXXTC_BEGIN_RE()xxxx>		
stop CCBS-T2	<tc_continue_1< td=""><td>INDXXXX</td><td></td><td></td></tc_continue_1<>	INDXXXX		
start CCBS-T3				
:				
CCBS recall	>IAM	> CCBS call		
:				
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
1. The access s	ide activates CCBS.			
2. Send a REL	without diagnostics "CCBS is	s possible".		
3. Check that th	e CcbsRequest invocation is	s received.		
	SPB is now free for a CCBS of			
5. CCBS call se	t up with "ISDN User Part re	quired all the way" in the	FCI of the IAM.	

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CCBS-ASE/	ISS_TC_V_15_11	3.9.1/	expression OLE	reference
		EN 300 356-18 [20]	•	None
Test purpose				•
Support of the retention	timer CCBS-T1			
To verify that the retention	on timer CCBS-T1 can be st	arted after receive of a re	lease message with ca	ause value #17
-	d stopped normally after activ		-	
Pre-test conditions			· · · · · · · · · · · · · · · · · · ·	J
Arrange the data in the	UT such that the calling use	r subscribes to the CCBS	supplementary service	Э.
access	SPA	SPB		
setup	>IAM	>		
<disconnect-< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect-<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	> (normal call,	user at SPB busy	·)
		SPB starts CCB	S-T1 and receives	1
		nothing until	the timer expires	1
<facility< td=""><td></td><td>-</td><td>-</td><td></td></facility<>		-	-	
Act CCBS				
start CCBS-T1				
send nothing until	it expires			
1. The access s	ide activates CCBS after CC	BS-T1 runs out		

TSS CCBS-ASE/	TP ISS_TC_V_15_12	ISUP'97 reference 3.5.5.4.1 c); 3.9.1/ EN 300 356-18 [20]	Selection expression OLE	Q.788 [38] reference None
To verify that the timer (u quest operation timer CCBS- CCBS-T2 can be started after quest return result from the	T2 sending of a CcbsRequ		
	<pre>kpires a TC-END with TC-L-C est is rejected.</pre>	CANCEL indication primit	ive is received from the	e DLE and the
Pre-test conditions Arrange the data in the	IUT such that the calling use	subscribes to the CCBS	supplementary service	э.
access setup	SPA >IAM <rel< td=""><td>-></td><th>SPB</th><td></td></rel<>	->	SPB	
<pre>start CCBS-T2 xxxTC_BEGIN_REQ> SPB starts CCBS-T2 and sends <tc_endxxxxxxx expires<="" if="" pre="" tc_end_ind="" the="" timer=""></tc_endxxxxxxx></pre>				
	ide activates CCBS. P dialogue in order to get an			

TSS CCBS-ASE/	TP ISS_TC_I_15_13	ISUP'97 reference 3.5.1.2.1.2/	Selection expression OLE	Q.788 [38] reference
		EN 300 356-18 [20]	-	None
Test purpose				
Support of the CCBS se	rvice duration timer CCBS-T	3		
To verify that the IUT ca expires.	n successfully deactivate a (CCBS request if the CCBS	S service duration time	r CCBS-T3
1	Cancel invoke with cancelC	ause to the DLE by using	the TCAP primitive T	C-END
	NVOKE request) with cancel			-
Pre-test conditions	· /			
Arrange the data in the I	UT such that the calling use	r subscribes to the CCBS	supplementary service	e.
access	SPA	SPB		
setup	->IAM	>		
<disconnect-< td=""><td> <rel< td=""><th></th><th></th><td></td></rel<></td></disconnect-<>	<rel< td=""><th></th><th></th><td></td></rel<>			
	RLC	-> (normal call,	user at SPB busy	·)
	TCAP transacti	on		
start CCBS-T2	xxxxTC_BEGIN_REQ-	-> CcbsRequest	invoke	
stop CCBS-T2 start CCBS-T3	<tc_cont_indxx< td=""><th>xxx CcbsRequest</th><th>return result</th><td></td></tc_cont_indxx<>	xxx CcbsRequest	return result	
starts CCBS-T3 and	l sends TC_CONTINUE_IN	ID with RemoteUserF:	ree if it expires	5
	<tc_cont_indxx< td=""><th>xxxx RemoteUser</th><th>Free</th><td></td></tc_cont_indxx<>	xxxx RemoteUser	Free	
	xxxxxTC_END_REQ	> TC_END_IND w	ith CancelCause	
"timeout CCBS-T3"				
	ide activates CCBS.			
After CCBS-T	3 timer expiry the IUT shall s	send the CancelCause "C	CBS-T3 timeout" in a	TC_END.

TSS CCBS-ASE/	TP ISS_TC_I_15_14	ISUP'97 reference 3.5.1.2.1.2 ii); 3.9.1/ EN 300 356-18 [20]	Selection expression OLE	Q.788 [38] reference None
Test purpose				
Support of the CCBS red	call timer CCBS-T4			
To verify that the timer C	CBS-T4 can be stopped after	er receiving an indication	from the user for a CC	BS recall.
	tains the maximum time the E sends a CcbsCancel inv			
Pre-test conditions				
	UT such that the calling use	r subscribes to the CCBS	supplementary service	<u>_</u>
access	SPA	SPB	Supplementary Service	
	->IAM	515		
-	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC TCAP transacti	> (normal call,	user at SPB busy	7)
start CCBS-T2	xxxxTC_BEGIN_REQ-	> CcbsRequest	invoke	
start CCBS-T3 :	<tc_cont_indxx< td=""><td>cxx CcbsReques</td><td>t return result</td><td></td></tc_cont_indxx<>	cxx CcbsReques	t return result	
	<tc_cont_indxx< td=""><td>xxxx RemoteUser</td><td>Free</td><td></td></tc_cont_indxx<>	xxxx RemoteUser	Free	
SPB starts CCBS-T4	and receives TC_END_	_IND with CancelCau	se if it expires	
	xxxxxTC_END_REQ	> TC_END_IND w	ith CancelCause	
"timeout CCBS-T3"				
	de activates CCBS and doe e CancelCause "CCBS-T4 ti	•		

TSS CCBS-ASE/	TP ISS_TC_I_15_15	ISUP'97 reference 3.5.3.1.2 b) i)/ EN 300 356-18 [20]	Selection expression OLE AND PICS A.18/5	Q.788 [38] reference None
Pre-test conditions	es not send any CcbsReque			CCBS is done.
access setup	UT so that the calling user s SPA ->IAM REL RLC	SPB > > (1 st normal cal		1sy)
<pre>start CCBS-T1 - <ccbs act="" ccbs-t1="" ccbs-t2="" ccbs-t3<="" pre="" requesccbs="" respons="" start="" stop=""></ccbs></pre>	- t	>		
: setup <disconnect< td=""><td></td><td></td><td>l, user at SPB bu</td><td>1sy)</td></disconnect<>			l, user at SPB bu	1sy)
 First call to but Check that th 	ide activates CCBS. usy user at SPB. e CcbsRequest invocation is ical call from the IUT to the s P dialogue.			

				0 700 7003
TSS		ISUP'97 reference	Selection	Q.788 [38]
CCBS-ASE/	ISS_TC_I_15_16	3.5.3.1.2 b) ii)/	expression	reference
		EN 300 356-18 [20]	OLE AND PICS	None
			A.18/4	
Test purpose				
	activation of CCBS as a new			
	ats a second identical activa	ation of CCBS as a new re	equest.	
Pre-test conditions				
	UT so that the calling user s			
access	SPA	SPB		
	->IAM			
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
		> (1 st normal cal	l, user at SPB bu	lsy)
	TCAP transacti	lon		
start CCBS-T1 -	-			
<ccbs act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccbs>				
CCBS Act respons	e>			
stop CCBS-T1				
start CCBS-T2	xxxxTC_BEGIN_RE(2>		
stop CCBS-T2	<tc_continue_]< td=""><td>INDx</td><td></td><td></td></tc_continue_]<>	INDx		
start CCBS-T3				
:				
1	->IAM			
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
		> (2 nd normal cal	l, user at SPB bu	lsy)
	TCAP transacti	lon		
start CCBS-T1 -	-			
<ccbs act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccbs>				
CCBS Act respons	e>			
stop CCBS-T1				
start CCBS-T2	xxxxTC_BEGIN_RE(-		
stop CCBS-T2	<tc_continue_]< td=""><td>INDx</td><td></td><td></td></tc_continue_]<>	INDx		
start CCBS-T3				
1. The access s	ide activates CCBS.			
2. First call to bu	isy user at SPB.			
	e CcbsRequest invocation is	received.		
	cal call from the IUT to the s			
5. Second identi	cal activation of the CCBS r	equest.		
6. End the TCAF		-		

TSS CCBS-ASE/	TP ISS_TC_I_15_17	ISUP'97 reference 3.5.1.2.2.2/	Selection expression DLE	Q.788 [38] reference
		EN 300 356-18 [20]		None
Test purpose				
	vice supervision timer CCB			
To verify that the IUT dea	activates the CCBS-request	if CCBS-T7 expires.		
NOTE 1: CCBS-T7 is st	arted after sending a Ccbs	Request return result to	the OLE.	
NOTE 2: CCBS-T7 is st	opped after the destination	B becomes not busy, bef	ore sending RemoteUs	serFree to the
OLE.				
NOTE 3: Send a CcbsC	Cancel invoke in a TC-ENE	D request(TC-INVOKE ree	quest) with cancelCaus	se "CCBS-T7
Timeout".				
access	SPA	SPB		
set the destination	n			
B busy				
	<iam< td=""><td></td><td></td><td></td></iam<>			
user busy	REL	>		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transact	tion		
	<xxtc_begin_ri< td=""><td>EQx</td><td></td><td></td></xxtc_begin_ri<>	EQx		
	XXTC_CONTINUE_INI	D> CcbsRequest r	eturn result	
SPB starts CCBS-T7	and receives TC_END	_IND with CancelCau	se	
"CCBS-T7 Timeout"	if it expires			
	xxxxxTC_END_IND	>		
user free	<rel< td=""><td></td><td></td><td></td></rel<>			
UDCI IICC	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

TSS CCBS-ASE/	TP ISS_TC_I_15_18	ISUP'97 reference 3.5.3.1.5 a); 3.9.1/ EN 300 356-18 [20]	Selection expression DLE	Q.788 [38] reference None
Test purpose				
	n B idle guard timer CCBS-			
To verify that no resource	es are available at the destin	nation B side until timer C	CBS-T8 expires.	
access	SPA	SPB		
set the destination	on			
B busy				
	<iam< td=""><td></td><td></td><td></td></iam<>			
user busy	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transacti	on REQx CcbsRequest		
		D> CcbsRequest		
:		1		
User is now free	SPB starts timer	s CCBS-T8		
	SPB checks every	v second that no re	sources	
	are available by	vusing T_LOCAL tim	er	
	IAM>			
	REL	>		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
:				
<setup< td=""><td> <iam< td=""><td> ССВЅ-Т8 е</td><td>xpires</td><td></td></iam<></td></setup<>	<iam< td=""><td> ССВЅ-Т8 е</td><td>xpires</td><td></td></iam<>	ССВЅ-Т8 е	xpires	
alert	->ACM	>		
connect	->ANM	>		
1. Check that no	resources are available with	hin CCBS-T8, e.g., send	an IAM and receiving a	a REL.
	sources are now available b			

CCBS-ASE/ Test purpose Support of the DLE reca	ISS_TC_V_15_19	3.5.3.5.2 d); 3.9.1/ EN 300 356-18 [20]	expression	reference
		EN 300 330-10 1201		None
			DLE	None
Support of the DLL reca	Il timor CCRS TO			
To verify that the timer (CBS-T9 can be started after	r sending of a TC-CONTI		Free from the
	CBS call is received from th			
	Cancel invoke in a TC-END		nuest) with cancelCaus	
Timeout".				
access	SPA	SPB		
set the destinat	ion			
B busy				
	<iam< td=""><td></td><td></td><td></td></iam<>			
user busy	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transa	action		
	<xxtc_begin< td=""><td>- ~</td><td></td><td></td></xxtc_begin<>	- ~		
	XXTC_CONTINUE_	_IND> CcbsReques	t return result	
•	xxTC_CONTINUE_	_IND> RemoteUser	Free	
	SPB starts CCE	S-T9 and receives		
	TC_END_IND wit	h CancelCause		
	"CCBS-T9 Timec	out" if it expires		
	XXXXXTC_END_IN	1D>		
user free	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. Check that the	e CancelCause "CCBS-T9 ti	meaut" is received in a Tu		
2. Free destinati				

TSS CCBS-ASE/	TP ISS_TC_I_15_20	ISUP'97 reference 3.7.7.3.3.1; 3.7.7.3.3.2;	Selection expression	Q.788 [38] reference
		3.9.3/ EN 300 356-18 [20]	Local AND PICS A.18/19	None
Test purpose				•
Support of the interwork	ing supervision timer T _{SUP}			
To verify that the timer 1	SUP is used correctly in case	of interworking with a priv	vate network.	
NOTE 1: The DLE sen	ds a CcbsCancel invoke in	TC-END request to the C	DLE without cancelCau	ise in case of
T _{SUP} timer ex	piry.	-		
NOTE 2: The OLE sen	ds a CcbsCancel invoke in	TC-END request to the E	DLE without cancelCau	ise in case of
T _{SUP} timer ex	piry.			
Pre-test conditions for C	DLE			
Arrange the data in the	UT such that the calling use	r subscribes to the CCBS	supplementary service	э.
SPC S	SPA SPB	(private network)		
IAM	->IAM>	>		
	<rel< td=""><td></td><th></th><td></td></rel<>			
RLC	>RLC>	> (normal call, us	ser at SPB busy)	
	TCAP transaction	1		
xxxTC_BEGIN_REQ	> xxTC_BEGIN_REQ>	>		
	SPB starts T_SUB	? and sends no		
	CcbsRequest retu	ırn result within T <u></u>	_SUP	
	xxxTC_END_REQ>	> TC_END_IND without	ut CancelCause	
1. Check that a	TC_END without CancelCau	ise is received.		

TSS CCBS-ASE/	TP ISS_TC_I_15_21	ISUP'97 reference 3.5.1.1.1.1/ EN 300 356-18 [20]	Selection expression OLE	Q.788 [38] reference None	
Test purpose CCBS REQUEST not invoked To verify that if a call is released with a cause other than #17 or #34, then no CCBS REQUEST shall be sent from the OLE to the DLE Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCBS supplementary service.					
access	SPA	SPB			
-	->IAM				
<disconnect <rel<="" td=""></disconnect>					
	ide shouldn't activate CCBS. with a cause other than #17 o				

6.2.16 Three party service (3PTY)

TSS THREE_PTY/	TP ISS_V_16_1	ISUP'97 reference 2.4; 2.2.1/ EN 300 356-19 [21]	Selection expression Local	Q.788 [38] reference 2.14.1
Test purpose				
Served user initiates 3P	ТҮ			
	here the served user with tw	o active calls is located, c	an successfully join th	ese calls to
	sation, and notify the implied			
	G messages with the gener			ablished" to
	e event indicator in the CPC			
The notification should b	e independent of the call se	t up direction of the two ca	alls; i.e. it should apply	to all of the
following scenarios:		•		
A>B ; A <b ;="" a<="" td=""><td></td><td></td><td></td><td></td>				
A>C ; A>C ; A	A <c ;="" a<c<="" td=""><td></td><td></td><td></td></c>			
Pre-test conditions				
Arrange the data in the I	UT such that the served use	er subscribes to the 3PTY	and HOLD supplement	ntary services.
SPC S	PA SPB			
	>IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	CPG>	check held state		
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
>ACM>				
>				
	>			
conf est	conf est			
	ommunication			
	<rel< td=""><td></td><td></td><td></td></rel<>			
coni disc	>			
<rel></rel>				
>				
1 Set up a first	coll from SDA to SDP and p	it it op hold		
	call from SPA to SPB and pu and call from SPA to SPC.			
	alls into a 3PTY communica	tion and check "conferen	ca astablished" in the (CPG
	TY communication through t			
SPC.	i i communication through	are arree-party bridge bet		
	all from UNI at SPB.			

			.	0
		ISUP'97 reference	Selection	Q.788 [38]
THREE_PTY/	ISS_V_16_2	2.5.2.1.1.3 a)/	expression	reference
		EN 300 356-19 [21]	Local	2.14.1
Test purpose				
	rivate communication with a			
	ontrolling the conference) on			
	sers. The appropriate notific		active-neid of A-C acti	ive-idie
Pre-test conditions	PG messages to the two use	15.		
	UT such that the served use	r subscribes to the 2PTV	and HOLD supplama	ntony convicos
Case a)	or such that the served use	a subscribes to the SFTT		indry services.
SPC	SPA S	SPB		
DIC	IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	ringing tone .			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	check communication	on		
	CPG>	check held state		
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
ACM>				
>				
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
conf est	conf est			
3PTY C	ommunication			
conf disc	conf disc			
conir disc	CPG>	check remote hold		
	<rel< td=""><td>0110011 10110000 11010</td><td></td><td></td></rel<>	0110011 10110000 11010		
	RLC>			
<rel< td=""><td></td><td></td><td></td><td></td></rel<>				
RLC>				
 Disconnect th Check the hel Release the h 	d state at SPB.	each party.		
Case b) SPC	SPA S	SPB		
SPC	IAM>	DED		
	<acm< td=""><td></td><td></td><td></td></acm<>			
	ringing tone .			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	check communicati	lon		
	CPG>	check held state		
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
>				
> ANM>				
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
conf est	conf est mmunication			
	CPG>			
conf disc	remote hold			
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
remote hold	conf disc			
	<rel< td=""><td></td><td></td><td></td></rel<>			
	>RLC>			
<rel< td=""><td></td><td></td><td></td><td></td></rel<>				
1 Coture o first	call from CDA to CDD and a	it it on hold		
	call from SPA to SPB and pu	גרוג טח חטום.		
-	nd call from SPA to SPC. alls into a 3PTY communica	tion and chock "conference	a actablichad" in the	CPG
			e established in the	UF G.
	TY communication towards te hold" at SPB with which p		equired	
	rence disconnected" after re		equileu.	
7. Release the re		ano more della		

THREE_PTY/ ISS_V_16_3 2.5.2.1.3 by EN 300 356-19 [21] expression reference Served user disconnects one remote user and relains the other To varily that the IUT (controlling the conference) on a 3PTY call can successfully disconnect one remote user and relain and notify the other user appropriately using CPG nessages with a generic notification indicator (depending on A-B active-held or A-C active-ide connection). The event indicator in the CPG should be set to "progress". NOTE: The "remote hold" notification should be sent in a CPG to the remaining remote user, followed by the "conference disconnected" notification in a separate CPG. NOTE: The "remote hold" notification in a separate CPG. Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPA SPC SPA SPC SPA CPG>	TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
Test purpose Served user disconnects one remote user and retains the other To verify that the UT (controlling the conference) on a 3PTY call can successfully disconnect one remote user and retain and notify the other user appropriately using CPG messages with a generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG should be set to 'progress'. NOTE: The "remote hold" notification should be sent in a CPG to the remaining remote user, followed by the 'conference disconnected' notification in a separate CPG. Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPA SPB RM		= =			
Served user disconnects one remote user and retains the other To verify that the UIT (controlling the conference) on a 3PTV call can successfully disconnet one remote user and retain and notify the other user appropriate remote users CPG messages with a generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG should be set to 'progress'. "progress'. Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a.) SPC SPA SPT SPA SPT SPA SPT SPA Conference disconnected' notification SPC SPA </th <th>_</th> <th></th> <th>-</th> <th>-</th> <th>2.14.2</th>	_		-	-	2.14.2
To verify that the IUT (controlling the conference) on 3 PTV call can successfully disconnect one remote user and retain and notification appropriately using CPG messages with a generic notification indicator (depending on A-B active-held or A-C active-ide connection). The event indicator in the CPG should be set to 'progress'. NOTE: The 'remote hold' notification should be sent in a CPG to the remaining remote user, followed by the "conference disconnected" notification in a separate CPG. Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPC SPA SPA SPB CONTENT CONTENT Communication SPA SPC CONTENT Communication SPA SPC CONTENT Communication SPA SPC SPA SPC SPA SPC CONTENT Communication SPA SPC CONTENT Communication SPA SPC SPA SPC SPA SPC CONTENT Communication SPA SPC SPA SPB CONTENT Communication SPA SPB SPC SPA SPB CONTENT Communication SPB SPC SPA SPB CONTENT CONTENT SPB CONTENT CONTENT SPB SPC SPA SPB S	Test purpose				
retain and notify the other user appropriately using CPG messages. The IUT should send to the appropriate normets users CPG messages with a generic notification indicator (depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG should be set to "norgaress". Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPC SPA SPA SPC SPA SPB CPG> CPG> CPG> CPG> CPG> RLC> conf est conf est RLC> 					
The IUT should send to the appropriate remote users CPG messages with a generic notification indicator (depending on A-B active-held of A-C active-idle connection). The event indicator in the CPG should be set to "progress". NOTE: The 'remote hold' notification is a separate CPG. Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPC SPA SPB IAM <anm <anm <anm <anm conf est confect CPG> check held state CPG> check held state </anm </anm </anm </anm 				ully disconnect one re	mote user and
(depending on A-B active-held or A-C active-idle connection). The event indicator in the CPG should be set to "roorgers". NOTE: The "remote hold" notification should be sent in a CPG to the remaining remote user, followed by the "conference disconnected" notification in a separate CPG . Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPD SPC SPA ACM ACM ACM> ACM> remote hold					
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"conference disconnected" notification in a separate CPG. Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPC SPA RMM		add" patification should be s	ont in a CPC to the remain	aing romoto usor foll	wod by the
Pre-test conditions Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPC SPA SPC SPA SPBACMACMCPG> conf est3PTY communication <rel> conf est conf est3PTY communication of the holdCPG> conf est conference disconnected <rel> 1. Set up a first call from SPA to SPC and put it on hold. 2. Set up a second call rom SPA to SPB after. Check 'Remothe hold' at SPB after. Check 'Remothe hold' at SPB after. Check 'Conference disconnected' after retrieving the held call. Case b) SPC SPA SPB CREL</rel></rel>				ling remote user, ion	wed by the
Arrange the data in the IUT such that the served user has activated 3PTY and HOLD supplementary services. Case a) SPC SPA Conference ADM Set up a first call from SPA to SPC. Soft up a second call from SPA to SPC. Soft up a second call from SPA to SPE. SpC SPA SPB SPC					
Case a) SPC SPA SPB IAM> RM> CPG> check held state RM> 		UT such that the served use	r has activated 3PTY and	HOLD supplementary	v services.
<pre>IM> <acm> <acm>CPG> check held state <acm> conf est conf est3 PTY communication <rlc> confest conference disconnectedRLC> conference disconnectedRLC> conference disconnectedRLC> conference disconnectedRLC> conference disconnectedRLC> conference disconnected after retrieving the held call. Case b) SPC SPA SPBLAM> conf est confest3PTY communication <cpg> conf disc <rlc> conf disc <rlc> conf disc <rlc> conf est confest3PTY communication <cpg> conf disc <rlc> conference disconnected sech party. </rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></rlc></cpg></rlc></rlc></rlc></cpg></rlc></acm></acm></acm></pre>					
<pre></pre>	SPC	SPA SP	PB		
<pre></pre>		>IAM>			
CPG> check held state ARM> conf est conf est		<acm< td=""><td></td><td></td><td></td></acm<>			
<pre><iam>ACM> conf est conf est 3PTY communication <rel> conf est conference disconnected</rel></iam></pre>					
<pre>ACM>ANM> conf est conf est3PTY communication <rel> remote hold</rel></pre>			check held state		
<pre>ANM> <cpg> conf est conf est3TY communication <rel> remote holdCPG> conference disconnected <rel> conference disconnected <rel> 1. Set up a first call from SPA to SPB and put it on hold. 2. Join the two calls into a 3PTY communication towards each party. 5. Check the 3PTY communication towards each party. 5. Check the 3PTY communication towards each party. 5. Check "conference disconnected" after retrieving the held call. Case b) SPC SPA SPBCPG>CPG> conf est conference field state <cpg> conf est conferenceCPG> conf disc <cpg> conf disc <rel> conf disc <</rel></rel></rel></rel></rel></rel></rel></rel></rel></rel></rel></rel></rel></cpg></cpg></rel></rel></rel></cpg></pre>					
<pre>cCPG> conf est conf est3PTY communication <rlc> remote holdCPG> conference disconnected <rlc> conference disconnected <rlc> l. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party. 5. Check "Remote hold" at SPB after. 6. Check "conference disconnected" after retrieving the held call. Case b) SPC SPA SPBCPG> conf est conf est3PTY communication <cpg> conf disc <cpg> conf disc <cpg> conf disc <rlc> conf disc <rlc> conf disc <rlc> l. Set up a first call from SPA to SPB and put it on hold. 2. Set up a first call from SPA to SPB and put it on hold. 3. Set up a first call from SPA to SPB and put it on hold. 4. Check the 3PTY communication and check "conference established" in the CPG. 5. Check the 3PTY communication and check "conference established" in the CPG. 5. Check the 3PTY communication and check "conference established" in the CPG. 5. Set up a first call from SPA to SPB and put it on hold. 5. Set up a second call from SPA to SPC. 5. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 5. Check the 3PTY communication towards each party. 5. Set up a Second call from SPA to SPB and put it on hold. 5. Set up a PTY communication towards each party. 5. Check the 3PTY communication and check "conference established" in the CPG. 5. Check the 3PTY communication and check "conference established" in the CPG. 5. Check the 3PTY communication towards each party. 5. Check the 3PTY communication towards each party. 5. Set up a second call from SPA to SPE and put it on hold. 5. Set up a second call from SPA to SPE and put it on hold. 5. Check the 3PTY communication towards each party. 5. Check the 3PTY communication towards each party. 5. Check the 3PTY communic</rlc></rlc></rlc></cpg></cpg></cpg></rlc></rlc></rlc></pre>	-				
<pre>conf est conf est 3PTY communication <rel> remote hold RLC> conference disconnected <rel></rel></rel></pre>					
<pre> 3PTY communication <rel> remote hold CPG> conference disconnected <rel RLC> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party. 5. Check "Remote hold" at SPB after. 6. Check "conference disconnected" after retrieving the held call. Case b) SPC SPA SPB IAM> ACM> check held state <iam> conf est conf est 3PTY communication <cpg> check held state <rel> conf disc <rel> conf disc <rel> REL> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.</rel></rel></rel></cpg></iam></rel </rel></pre>					
<pre><rel< td=""><td></td><td></td><td></td><td></td><td></td></rel<></pre>					
RLC> remote hold CPG> conference disconnected <rlc> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party. 5. Check "Remote hold" at SPB after. 6. Check "conference disconnected" after retrieving the held call. Case b) SPC SPA SPB IAM> CPG> check held state <acm> CPG> check held state <rcm> conf est conf est 3PTY communication <rel> toonf disc <rel> RLC> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication and check "conference established" in the CPG.</rel></rel></rcm></acm></rlc>					
<pre>CPG> conference disconnected <relrlc> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party. 5. Check "conference disconnected" after retrieving the held call. Case b) SPC SPA SPBIAM> <acm> conf est conf est 3PTY communication <cpg> conf est conf est 3PTY communication <rel> </rel></cpg></acm></relrlc></pre>					
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RLC> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party. 5. Check "Remote hold" at SPB after. 6. Check "conference disconnected" after retrieving the held call. Case b) SPC SPA SPA SPB CPG> CPG> conf est conf est		conference disconne	ected		
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 4. Check the 3PTY communication towards each party. 5. Check "Remote hold" at SPB after. 6. Check "conference disconnected" after retrieving the held call. Case b) SPC SPA SPB ACM> <acm></acm> CPG> check held state <cpg> check held state</cpg> <cpg></cpg> conf est do approximation Set up a first call from SPA to SPB and put it on hold. Set up a second call from SPA to SPC. Join the two calls into a 3PTY communication and check "conference established" in the CPG. Check the 3PTY communication towards each party. 					
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6. Check "conference disconnected" after retrieving the held call. Case b) SPA SPB SPC SPA SPB IAM> ACM ACM CPG> CPG> check held state <acm< td=""> CPG> CPG> check held state <cpg> conf est 3PTY communication REL> conf disc <rel< td=""> REL RLC> 1. Set up a first call from SPA to SPB and put it on hold. 2. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party. </rel<></cpg></acm<>			each party.		
Case b) SPC SPA SPB IAM> <acm> CPG> check held state <iam CPG> check held state <cpg> CPG> conf est conf est 3PTY communication <cpgrel> conf disc <rel> conf disc <rel> REL> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.</rel></rel></cpgrel></cpg></iam </acm>			trioving the hold call		
SPC SPA SPB IAM> <acm> CPG> check held state <acm> CPG> check held state <cpg> conf est 3PTY communication <rel> conf disc <rlc> Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.</rlc></rel></cpg></acm></acm>		rence disconnected alter rel	ineving the neid call.		
<pre>IAM> <acm <acmcpg=""> check held state </acm></pre> <pre> </pre> <pre> <!--</td--><td>· ·</td><td>SPA SPB</td><td></td><td></td><td></td></pre>	· ·	SPA SPB			
<pre></pre>	510				
<pre>CPG> check held state <iam>ACM> conf est conf est 3PTY communication <cpg> conf disc <rel> conf disc <rel> conf disc <rel> <rel> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.</rel></rel></rel></rel></cpg></iam></pre>		<acm< td=""><td></td><td></td><td></td></acm<>			
<pre><iam ACM> ANM> conf est conf est 3PTY communication <cpgrel> conf disc <rel REL RLC> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.</rel </cpgrel></iam </pre>					
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 ACM> ANM> CPG> conf est conf est 3PTY communication CPG PEL> conf disc <rel< li=""> RLC> </rel<> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.					
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 3PTY communication <cpg rel=""> conf disc <rel< li=""> <rel< li=""> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party. </rel<></rel<></cpg>					
<cpgrel> conf disc <rlc> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.</rlc></cpgrel>					
conf disc <rlc< td=""> <rel< td=""> RLC 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.</rel<></rlc<>					
<rel< p=""> 1. Set up a first call from SPA to SPB and put it on hold. 2. Set up a second call from SPA to SPC. 3. Join the two calls into a 3PTY communication and check "conference established" in the CPG. 4. Check the 3PTY communication towards each party.</rel<>					
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 Set up a second call from SPA to SPC. Join the two calls into a 3PTY communication and check "conference established" in the CPG. Check the 3PTY communication towards each party. 	-				
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 Join the two calls into a 3PTY communication and check "conference established" in the CPG. Check the 3PTY communication towards each party. 					
 Check the 3PTY communication towards each party. 			tion and check "conferenc	e established" in the	CPG.

Too	TO		0.1	0 700 7001
TSS THREE_PTY/	TP ISS_V_16_4	ISUP'97 reference 2.5.2.1.1.3/ EN 300 356-19 [21]	Selection expression Local	Q.788 [38] reference 2.14.4
Test purpose		EN 300 330-19 [21]		2.14.4
	s both remote users and terr	minates the call		
	ontrolling the conference) ca		tification to the two rer	note users
	n remote users on the 3PTY			
	the appropriate remote user		otification indicator (depending on
	ctive-idle connection). The e			depending en
Pre-test conditions				
Arrange the data in the I	UT such that the served use	er has activated 3PTY and	HOLD supplementary	services.
Case a)				
SPC	SPA SPB			
	>IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	CPG>	check held state		
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
>ACM>				
>ANM>				
	>			
conf est	conf est			
	communication			
<rel></rel>	remote hold			
RLC>	REL>			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	<rdc< td=""><td></td><td></td><td></td></rdc<>			
1. Set up a first	call from SPA to SPB and p	ut it on hold.		
	and call from SPA to SPC.			
	alls into a 3PTY communica	ation and check "conferen	ce established" in the (CPG.
	TY communication towards			
	te hold" as a reaction to firs			
6. Check that R	elease is received at SPB w	ith Cause #16 - Normal ca	all clearing.	
Case b)			•	
SPC	SPA S	SPB		
	>IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	CPG>	check held state		
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
ACM>				
>ANM>				
	CPG>			
conf est	conf est			
	munication			
	>			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
<rel></rel>				
×uC>				
1 Sot up a first	call from SDA to SDB and a	ut it on hold		
	call from SPA to SPB and p			
	and call from SPA to SPC. alls into a 3PTY communica	ation and check "conferen	ca astablished" in the (PG
	TY communication towards			0.
	elease is received at SPB w		all clearing	
J. CHECK HIAL K	SIEASE IS IECEIVEU AL OPD W	in Gause #10 - Norrial Ca	an cicanny.	

				•
TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
THREE_PTY/	ISS_V_16_5	2.2.1/	expression Local	reference
_		EN 300 356-19 [21]		2.14.3
Test purpose				
Remote user disconnect				
	ontrolling the conference) car			
	the remote users, and send			
	the other remote user CPG v			g on A-B
	e-idle connection). The event			
	hold" notification should be s		r remote user, followed	by the
	disconnected" notification in a	a separate CPG.		
Pre-test conditions	IIIT auch that the comuced use	r has activated 2DTV and		
Case a)	IUT such that the served use	i nas activated 3PT r and		services.
SPC	SPA SPB			
brc	IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	CPG>	check held state		
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
ACM>				
>				
<cpg< td=""><td>CPG></td><td></td><td></td><td></td></cpg<>	CPG>			
conf est	conf est			
3PTY cc	ommunication			
REL>	CPG>			
<rlc< td=""><td>remote hold</td><td></td><td></td><td></td></rlc<>	remote hold			
	CPG>			
	conf disc			
	REL>			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	call from SPA to SPB and pu	it it on hold.		
	ond call from SPA to SPC.			220
	calls into a 3PTY communica		ce established in the c	JPG.
	TY communication towards e	each party.		
	ote hold" indication at SPB. rence disconnected" after ref	trioving the hold call		
	elease is received at SPB with		Il clearing	
Case b)	slease is received at or D wit		in cleaning.	
SPC SF	PA SPB			
	>IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	CPG> c	check held state		
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
>				
ANM				
	CPG>			
conf est	conf est			
	munication			
	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC>			
<rel< td=""><td></td><td></td><td></td><td></td></rel<>				
RLC>				
1 Set up a first	call from SPA to SPR and pu	it it on hold		
-	call from SPA to SPB and pu			
-	ond call from SPA to SPC. calls into a 3PTY communica	tion and check "conferen	na astablished" in the (
	PTY communication towards			
	disconnects with Cause #16			
		i teaning.		

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
THREE_PTY/	ISS_V_16_6	2.5.2.2-4.1; Table 2-1/	expression	reference
Tost purposo		EN 300 356-19 [21]	IntermE	2.14.1
Test purpose Transit support of 3PTY				
	n transparently transfer all i	nformation related to 3PT	(.	
	to transparently transfer the			n the aeneric
	both the forward and the b		3	J
1) "Conference establish	ned"			
2) "Conference disconne	ected"			
Remote hold"				
Case a)				
		PB		
> <acm></acm>	IAM> <acm></acm>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	CPG>	check held state		
	CPG>			
conf est	conf est			
3PTY c	communication			
CPG>	CPG>			
remote hold	remote hold			
	>			
conf disc	conf disc			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
1. Set up a call f	rom SPB to SPC and put it	on hold.		
	erence established" indication			
3. Check throug	h-connection of the speech	path.		
	e hold" indication at SPB.			
	rence disconnected" indicat	ion.		
Case b)		_		
SPC	SPA SP	В		
	<iam></iam>			
	>			
	<cpg< td=""><td>check held state</td><td></td><td></td></cpg<>	check held state		
	<cpg< td=""><td></td><td></td><td></td></cpg<>			
conf est	conf est			
3PTY	communication			
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
remote hold				
<cpg< td=""><td></td><td></td><td></td><td></td></cpg<>				
conf disc <rel< td=""><td>conf disc</td><td></td><td></td><td></td></rel<>	conf disc			
RLC>				
1. Set up a call f	rom SPB to SPC and put it	on hold.		
	ence established" indication			
3. Check throug	h-connection of the speech			
	 hold" indication from SPB. ence disconnected" indication 			

		ISUP'97 reference	Selection	Q.788 [38]
THREE_PTY/	ISS_V_16_7	2.5.2.5.1; Table 2-1/ EN 300 356-19 [21]	expression DLE	reference 2.14.1
Test purpose				
Remote user included in	3PTY			
To verify that the IUT ca	n receive the notification inf	ormation related to 3PTY,	and pass it on to the a	access
signalling system			•	
The IUT should be able	to transparently transfer the	e CPG message with the for	llowing notifications in	the generic
notification indicator in	h both the forward and the b	backward direction :	-	-
1) "Conference establish	ned"			
2) "Conference disconne	ected"			
Remote hold"				
access S	SPA SPB(MTC) SPD	(controlling 3P	ΓY)
<setup< td=""><td></td><td></td><td></td><td></td></setup<>				
alerting>				
connect>				
<remote hold<="" td=""><td></td><td></td><td></td><td></td></remote>				
	remote hold	remote hold		
<conf est<="" td=""><td><cpg< td=""><td></td><td></td><td></td></cpg<></td></conf>	<cpg< td=""><td></td><td></td><td></td></cpg<>			
	conf est	conf est		
	communication			
<remote hold<="" td=""><td></td><td></td><td></td><td></td></remote>				
	remote hold			
<conf disc<="" td=""><td><cpg< td=""><td></td><td></td><td></td></cpg<></td></conf>	<cpg< td=""><td></td><td></td><td></td></cpg<>			
	conf disc	conf disc		
<disconnect< td=""><td><rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	>RLC>	RLC>		
-	to a UNI at SPA and put it o			
	up to the access observe t	ne indications: "conference	e established", "confer	ence
	and "remote hold".			
	rved user starts the 3PTY c			
	TY communication towards		en mento ber ber a P	
	hold" indication to the remo			onnected.
	ence disconnected', sign that		en retrieved.	
Check that co	mmunication is possible an	d release the call.		

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
THREE PTY/	ISS_V_16_8	2.6.15/	expression	reference
	100_1_10_0	EN 300 356-19 [21]	Local	None
Test purpose				
Served user initiates 3P	TY; interaction with HOLD			
To verify that the IUT do	es not send any notifications	to the remote users by re	equest of HOLD by the	e served user
during the 3PTY convers	sation active phase.	-		
Pre-test conditions				
Arrange the data in the I	UT such that the served use	r has activated 3PTY and	HOLD supplementary	/ services.
SPC S	PA SPB			
	>IAM>			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	<anm< td=""><td></td><td></td><td></td></anm<>			
	CPG>	check held state		
<iam< td=""><td></td><td></td><td></td><td></td></iam<>				
>ACM>				
>	~~~~			
	CPG>			
conf est				
3PTY COMM	unication	l user at SPA activa	tor bold	
		nothing is observed		
<cpg< td=""><td></td><td>nothing is observed</td><td>l al SPB</td><td></td></cpg<>		nothing is observed	l al SPB	
	<rlc></rlc>			
<rel< td=""><td></td><td></td><td></td><td></td></rel<>				
RLC>				
1. Set up a first (call from SPA to SPB and pu	it it on hold		
	and call from SPA to SPC.			
	alls into a 3PTY communica	tion and check "conference	ce established" in the	CPG.
	TY communication towards			
	notification of call Hold is re			

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
THREE_PTY/	ISS_V_16_9	2.7/	expression	reference
		EN 300 356-19 [21]	IWorkE	None
Test purpose				
3PTY; interaction with o	ther networks			
To verify that the IUT wi	Il discard the call progress in	formation in case of intera	action with network whi	ch does not
provide it. The 3PTY she	ould be completed.			
SP(non-ISUP) S	SPA SPB(MI	C) SPD (c	ontrolling 3PTY)	
<iai< td=""><td><iam< td=""><td></td><td></td><td></td></iam<></td></iai<>	<iam< td=""><td></td><td></td><td></td></iam<>			
>	>			
>	>			
	<cpg< td=""><td></td><td></td><td></td></cpg<>			
	remote hold			
	<cpg< td=""><td></td><td></td><td></td></cpg<>			
	conf est			
3PTY c	communication			
	<cpg< td=""><td></td><td></td><td></td></cpg<>			
	remote hold			
	<cpg< td=""><td></td><td></td><td></td></cpg<>			
	conf disc			
<ccl< td=""><td><rel< td=""><td></td><td></td><td></td></rel<></td></ccl<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	>			
1. Set up a call	from SPB to a non-ISUP des	tination at SPC and put it	on hold.	
2. Send "conference"	ence established" indication i	in the CPG.		
3. Check throug	h-connection of the speech p	bath.		
4. Send "remote	hold" indication from SPB.			
5. Send "conference"	ence disconnected" indication	n.		

6.2.17 Completion of calls on No Reply (CCNR)

TSS CCNR-ISUP/	TP ISS_V_17_1_1	ISUP'97 reference 4.2.1.1; 5.3.1.1/	Selection expression OLE	Q.788 [38] reference None
Test purpose		Q.733.5 [28]	OLE	None
ISUP Preference Indicat	for in the CCNR call			
	NR call, the IUT sets the ISU	IP preference indicator in	the forward call indic	eator
-	"ISDN User Part required all	-		ator
Pre-test conditions	ISBN USELL all required an	the way .		
	UT such that the calling use	r subscribes to the CCNR	supplementary servic	Δ
access	SPA	SPB	supplementary service	0.
	>IAM	515		
beeup	<acm< td=""><td></td><td></td><td></td></acm<>			
No rep	lv			
1	>REL	->		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transac	tion		
<recall< td=""><td></td><td></td><td></td><td></td></recall<>				
setup CCNR call	>IAM	-> ISUP require	d all the way	
:				
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
1. Set up a call t	o free user at SPB.			
2. User at SPB I	nas no reply.			
	er at SPB becomes free by			on.
CCNR call with	th "ISDN User Part required	all the way" in the FCI of	the IAM.	

TSS CCNR-ISUP/	TP ISS_V_17_1_2	ISUP'97 reference 4.2.1.3/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None
coded as "CCSS call". Pre-test conditions	NR call, the IUT includes in t			
U	UT such that the calling use		supplementary service	Э.
access	SPA	SPB		
setup	->IAM	->		
	<acm< td=""><td></td><td></td><td></td></acm<>			
No rep	ly			
disconnect	>REL	->		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
ТСА	P transaction			
	->IAM	->		
·	2 11111	CCNR call		
	5.57			
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
 User at SPB I Check that use 	o free user at SPB. has no reply. her at SPB becomes free by i ion "CCSS call" in the IAM.	using the RemoteUserFre	e CCNR ASE operatio	n.

TSS CCNR-ISUP/	TP ISS_V_17_1_3	ISUP'97 reference 5.1.1.1.1/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None
User service information User service information Access transport (e.g.	NR call, the IUT includes the on;	e retained call information	in the IAM :	
	UT such that the calling use tested may be provided by the second s		and such that the rele	vant call
access setup No rep	SPA SE >IAM <acm ly</acm 	->		
	>REL <rlc AP transaction</rlc 			
setup CCNR call	->IAM	_	all the way	
TCAP and ter2.User at SPB i3.Check that us4.CCNR call wi	with USI, USIp, ATP and/or (minates the call. s free. ser at SPB becomes free by th "ISDN User Part required bout ATP, USI, USIp and Cd	using the RemoteUserFre all the way" in the FCI of	e CCNR ASE operation	on.

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CCNR-ISUP/	ISS_V_17_1_4	5.1.1.1.1/Q.733.5 [28]	expression	reference
			OLE AND PICS A.19/3	None
Test purpose			A.19/3	
	call information & interactio	ns with other supplement	any sanvicas	
	NR call, the IUT includes the			
Calling party number (
	calling party sub-address if	supported):		
UUS1,2,3 (retained requ	lest if supported).	oupportou),		
	by user in response to CCI	NR recall if supported):		
	ndicator (with COLP reques			
Pre-test conditions				
	UT such that the calling use	er subscribes to the CCNR	and such that the rele	vant call
	cable supplementary service			
access	SPA	SPB	0 (0	, ,
setup	>IAM	>		
	<acm< th=""><td></td><td></td><th></th></acm<>			
No rep	ly			
disconnect	>REL	->		
	<rlc< th=""><td></td><td></td><th></th></rlc<>			
TCAP	transaction			
<recall< td=""><th></th><td></td><td></td><th></th></recall<>				
setup CCNR call	>IAM	> ISUP require	d all the way	
:				
<disconnect< td=""><th> <rel< th=""><td></td><td></td><th></th></rel<></th></disconnect<>	<rel< th=""><td></td><td></td><th></th></rel<>			
	with Calling party number (if			
	etained request if supported			
	orted) OFCI (with COLP red	quest) which encounters u	iser at SPB with no ans	swer, activates
	minate the call.			
		using the Remotel lear	OC COND ASE on and	on
	er at SPB becomes free by th "ISDN User Part required			
	bout ATP, UUS1,2,3 reques			
iniomation. a	1001 ATF, 0031,2,3 leques	si, ooi iii conk recall and	L CUFIN SHAILDE CHECK	eu 100.

TSS CCNR-ISUP/	TP ISS_V_17_1_5	ISUP'97 reference 5.3.2.1; 5.3.3.1;	Selection expression	Q.788 [38] reference
		5.3.4.1/Q.733.5 [28]	IntermE	None
Test purpose				
Transit support of CCNF	R Possible Indicator parame	ter		
To verify that the IUT is	able to pass the CCNR Pos	sible Indicator parameter i	in the ACM/CPG transp	parently to the
preceding exchange.	•	·	·	2
SPC	SPA S	PB		
<iam< td=""><td><iam< td=""><td></td><td></td><td></td></iam<></td></iam<>	<iam< td=""><td></td><td></td><td></td></iam<>			
ACM>	ACM>			
<rel< td=""><td><rel< td=""><td></td><td></td><td></td></rel<></td></rel<>	<rel< td=""><td></td><td></td><td></td></rel<>			
RLC>	RLC>			

1. Check CCNR Possible Indicator parameter in the ACM/CPG.

TSS CCNR-ISUP/	TP ISS_V_17_1_6	ISUP'97 reference 5.3.2.1; 5.3.3.1; 5.3.4.1/Q.733.5 [28]	Selection expression IntermE	Q.788 [38] reference None	
Test purpose					
Transit support of CCSS parameter in IAM					
To verify that the IUT is	able to pass CCSS parame	eter transparently to the suc	ceeding exchange.		
SPC	SPA	SPB			
IAM	>IAM	> CCSS parameter			
1. Set up a CCNR call to user at SPB.					
	CCSSpar is received.				

TSS CCNR-ISUP/	TP ISS_V_17_1_7	ISUP'97 reference 4.2.1.2/Q.733.5 [28]	Selection expression DLE	Q.788 [38] reference None
Test purpose CCNR possible to destine To verify that the IUT is a with a "CCNR possible" in	ble to generate in a ACM/	CPG message the field cor	ntaining a CCNR possi	ible indicator
access	SPA	SPB		
set the destination	on			
B user free				
	<iam< td=""><td></td><td></td><td></td></iam<>			
	ACM	>		
No reply				
	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
<disconnect< td=""><td></td><td></td><td></td><td></td></disconnect<>				
1.UNI at SPA no2.Check that "Co3.Release the ca	CNR possible" is received	in the ACM/CPG message		

TSS CCNR-ISUP/	TP ISS_V_17_1_8	ISUP'97 reference 4.2.1.3/Q.733.5 [28]	Selection expression DLE	Q.788 [38] reference None
Test purpose				
CCNR parameter in the	CCNR call			
To verify that the IUT is a the IAM coded as "CCN	able to terminate the CCNR R call".	call, with the CCNR call in	ndicator in the CCNR p	parameter in
access	SPA	SPB		
set the destinati	on B no answer			
	<iam< td=""><td> normal call</td><td></td><td></td></iam<>	normal call		
	ACM	-> CCNR possible		
No rep	ly			
<disconnect< td=""><td>- <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	- <rel< td=""><td></td><td></td><td></td></rel<>			
	RLC			
c.	TCAP transact:	10n		
user frees resourc			\	
	RemoteUserFree to Co	•	e resource)	
	resource(s) still ava			
<u>T</u>	<acm< td=""><td></td><td></td><td></td></acm<>			
	>ANM			
	<rel< td=""><td></td><td></td><td></td></rel<>			
	<rel< td=""><td></td><td></td><td></td></rel<>			
1. UNI at SPA n	o answer.			
	mote user is free by using th	ne RemoteUserFree CCN	R ASE operation	
	NR call specified in the IAM			
	e call is terminated (ANM, C			

TSS CCNR-ISUP/	TP ISS_V_17_1_9	ISUP'97 reference 5/Q.733.5 [28]	Selection expression DLE	Q.788 [38] reference None
Test purpose		•		•
CCNR not possible to de	estination B			
To verify that the IUT is a	able to generate in a ACM/C	PG the CCNR possible ir	ndicator parameter with	n a "CCNR not
possible" indication.				
NOTE: CCNR is not	possible. Possible reasons in	nclude the queue is set to	zero or filled up or due	e to
maintenance	reasons.			
Pre-test conditions				
Arrange the data in the I	UT such that CCNR for dest	tination B is not possible		
access	SPA SPB			
set the destinati	on			
B user free				
	<iam< td=""><td></td><td></td><td></td></iam<>			
		-> CCNR not possible	e	
No rep	ply			
<disconnect< td=""><td>- <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	- <rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. Set up a call t	o free upor at SDA			
	to free user at SPA.	ad in the ACM or CBC me	00000	
	CNR not possible" is receive		essaye.	
Release the c	all.			

TSS CCNR-ISUP/	TP ISS_V_17_1_10	ISUP'97 reference 6.10.2.2 c)/Q.733.5 [28]	Selection expression DLE AND PICS A.19/9	Q.788 [38] reference None
To verify that the IUT de user. Pre-test conditions User at destination B mu	call - Interaction with CFB letes the CCNR parameter ist subscribe to and activate			
(CCNR-T9). SPC S	PA SPB			
,	CCNR possible tivates CDIV while C IAM> C	,		
	o free user at SPA. CCNRpar is received in th	e IAM.		

TSS CCNR-ISUP/	TP ISS_V_17_1_11	ISUP'97 reference 5.3.5.1/Q.733.5 [28]	Selection expression DLE AND PICS A.19/6	Q.788 [38] reference None
Test purpose				
	NR request queue entries o			
-	pports the maximum numbe		•	
access	SPA	SPB		
set the destinati	on			
B Free	<iam< th=""><th></th><td></td><th></th></iam<>			
user no reply	<acm></acm>	COND pagaible		
	ACM>	CONR POSSIBLE		
	>			
	<rlc< th=""><th></th><td></td><th></th></rlc<>			
	TCAP transacti	on		
Repeat more	than 5 set up to no :	reply user at SPA		
:				
<disconnect< td=""><th><rel< th=""><th></th><td></td><th></th></rel<></th></disconnect<>	<rel< th=""><th></th><td></td><th></th></rel<>			
	>			
1. Set up a call	to free user at access.			
2. Send maximu	IM NUMBER OF CCNR reques	ts and check that user at \$	SPA becomes free by	using the
	Free CCNR ASE operation.			
One more IAI	M after the maximum numbe	er of calls is reached at SP	PA.	
	CNR not possible" is receiv	ed in the ACM/CPG.		
5. Release the c	, cann			
	maximum 5 different) from S	SPB to SPA which encount	ters user at SPA no ar	nswer. Activate
	different calls.			
	requests maximum allowed	1		
8. Received AC	M/CPG with "CCNR not pos	sible".		

TSS CCNR-ISUP/	TP ISS_V_17_1_12	ISUP'97 reference 5.3.5.1/Q.733.5 [28]	Selection expression DLE	Q.788 [38] reference None
Test purpose				
Incoming non-CCNR ca	ll with identical service requi	irements released		
	aving an entry in the CCNR		incoming call if the se	ervice
	ond call are identical to the e			
	equest remains in the queue			
Pre-test conditions	- 1			
	IUT so that there are free rea	sources in addition to the i	resource reserved for	the first CCNR
request.				
access	SPA SI	PB		
set the destinatio	n			
B free				
user no reply	<iam< td=""><th>lst call</th><td></td><th></th></iam<>	l st call		
	>ACM>	CCNR possible		
	<rel< td=""><th></th><td></td><th></th></rel<>			
	RLC>			
TCA	AP transaction			
user frees resourc				
	erFree to 1 $^{ m st}$ call (&			
resource(s	s) still available for	r potential 2 nd call		
	<iam< td=""><th>2nd. independent ca</th><td>11</td><th></th></iam<>	2 nd . independent ca	11	
		released because io	dentical require	ments
	<rlc< td=""><th></th><td></td><th></th></rlc<>			
check	TCAP transaction			
		at		
	<iam< td=""><th>1st. CCNR call (emp</th><td>ty queue)</td><th></th></iam<>	1 st . CCNR call (emp	ty queue)	
	continue CCNR	call 1° call.		
t O t t ^{et}				
	all to free user at access.	source and states		
	ss complete message with C			
	mote user is free by using the			
	cond identical (with the same	e requirement to the one b	being processed) set i	up to the same
remote user.		No o o o o o o o o o o o o o o o o o o		
	e call is released with cause			
	1 st CCNR call in order to ge			
7. Continue the	2 nd CCNR call in order to ge	et an idle state.		

TSS CCNR-ISUP/	TP ISS_V_17_1_13	ISUP'97 reference 5.3.5.1/Q.733.5 [28]	Selection expression DLE	Q.788 [38] reference None
To verify that the IUT, ha requirements of the second NOTE: The original r Pre-test conditions Arrange the data in the	Il with not identical service re aving a queue entry in the C ond call are not identical to t equest remains in the queue UT so that there are free res	CNR queue, accepts a se he entry being processed a.	and resources are ava	ilable.
request. access set the destination B free user no reply		CCNR possible		
<setup alert connect <disc< td=""><td></td><th>call (& reserve r ailable for potenti - 2nd. independent > -</th><td>al 2nd call</td><th></th></disc<></setup 		call (& reserve r ailable for potenti - 2 nd . independent > -	al 2 nd call	
 Check addres Check that re Process a se Check that th 	to free user at access. ss complete message with C mote user is free by using th cond non-identical (without t e call is accepted (ANM, CC P dialogue for the 1 st call.	ne RemoteUserFree CCN he same requirement to the		d) set up.

6.2.17.1 CCNR Application Service Element (ASE)

TSS CCNR-ASE/	TP ISS_TC_V_17_2_1	ISUP'97 reference 5.1.1.1.1/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None
Test purpose				
Ability to perform a CCI	VR REQUEST class 1 opera	ation - successful		
To verify that the IUT ca	n successfully perform a CO	CNR REQUEST operation	if required by the call	ing user:
NOTE 1: Send a CCNF	RRequest invoke to the DL	E by using the TCAP prim	itive TC-BEGIN requ	est(TC-
INVOKE requ	lest).			
NOTE 2: Receive a CC	NRRequest return result	from the DLE in a TC-CON	ITINUE indication (T)	C-INVOKE
indication).				
Pre-test conditions				
Arrange the data in the I	UT such that the calling use	er subscribes to the CCNR	supplementary servi	ce.
access	SPA	SPB		
setup	->IAM			
	<acm< td=""><td> CCNR possible</td><td></td><td></td></acm<>	CCNR possible		
(normal c	all, user at SPB no	answer)		
	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	. TCAP transaction .			
start CCNR-T1 -	-			
<ccnr act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccnr>				
CCNR Act respons	e>			
stop CCNR-T1				
start CCNR-T2	XXXXTC_BEGIN_REQ	>		
stop CCNR-T2	<tc_continue_i< td=""><td>NDx</td><td></td><td></td></tc_continue_i<>	NDx		
start CCNR-T3				
:				
	->IAM	> CCNR call		
:				
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	ide activates CCNR.			
	equest invocation is received	d.		
	PB is now free for a CCNR			
 CCNR call se 	t up with "ISDN User Part re	equired all the way" in the	FCI of the IAM.	

TSS CCNR-ASE/	TP ISS_TC_V_17_2_2	ISUP'97 reference 5.1.1.1.2/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None
Test purpose				•
Ability to perform a CCN	IR REQUEST class 1 operat	tion - unsuccessful		
	occurs (short or long term de		NR REQUEST operati	ion, the IUT is
able to indicate the resu		,		
INVOKE requ			-	-
indication).	CNRRequest return error from			UK
Pre-test conditions				
	UT such that the calling use	r subscribes to the CCNR	supplementary servic	e
access	SPA	SPB	oupploinentary corvio	0.
	IAM			
	<acm< td=""><td></td><td></td><td></td></acm<>			
(normal c	all, user at SPB no a	answer)		
	REL	>		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transac	ction		
start CCNR-T1 -	-			
<ccnr act="" reques<="" td=""><td>t</td><td></td><td></td><td></td></ccnr>	t			
CCNR Act respons	e>			
stop CCNR-T1				
start CCNR-T2	XXXXXTC_BEGIN_RI	EQxxxx->		
stop CCNR-T2	<tc_end_indxx< td=""><td>xxxxxxx</td><td></td><td></td></tc_end_indxx<>	xxxxxxx		
1. The access s	ide activates CCNR.			

2. The CCNRRequest invocation is received.

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
CCNR-ASE/	ISS_TC_V_17_2_3	5.1.2.1.1/Q.733.5 [28]	expression	reference
CCIR-ASE/	135_1C_V_17_2_5	5.1.2.1.1/@.755.5 [26]	OLE	None
Test purpose			ULL	None
	R CANCEL class 4 operation			
	n successfully perform a dea		ad by the colling upor:	
NOTE: Send a CCNRCancel invoke without cancelCause to the DLE by using the TCAP primitive TC-END request(TC-INVOKE request).				
· · · ·	NVORE request).			
Pre-test conditions				
	UT such that the calling use		supplementary service	Э.
access	SPA	SPB		
setup	->IAM			
	<acm< td=""><td>-</td><td></td><td></td></acm<>	-		
(normal c	all, user at SPB no a			
	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transact:	ion		
start CCNR-T1 -	-			
<-CCNR Act request				
CCNR Act respons	e>			
stop CCNR-T1				
start CCNR-T2	xxxxTC_BEGIN_REQ	xx->		
stop CCNR-T2	<tc_continue_ii< td=""><td>NDxx</td><td></td><td></td></tc_continue_ii<>	NDxx		
start CCNR-T3				
<ccnr deact="" requ<="" td=""><td>est-</td><td></td><td></td><td></td></ccnr>	est-			
CCNR Deact respo	nse->			
	xxTC_END REQxxxx	>		
stop CCNR-T3				
1. The access si	ide activates and deactivate	s CCNR.		
2. Check that the	e CCNRRequest invocation	is received.		

TSS CCNR-ASE/	TP ISS_TC_V_17_2_4	ISUP'97 reference 5.3.1.1/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None
Test purpose		•		•
Ability to indicate a CCN	IR recall to the calling user			
	n successfully initiate a CCN	NR recall to the calling use	r:	
	moteUserFree invoke from			NVOKE
indication).				
Pre-test conditions				
Arrange the data in the	UT such that the calling use	r subscribes to the CCNR	supplementary servi	ce.
access	SPA	SPB	,	
setup	>IAM	>		
	<acm< td=""><td> CCNR possible</td><td></td><td></td></acm<>	CCNR possible		
(normal c	all, user at SPB no a	answer)		
	REL	>		
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP tran	saction		
start CCNR-T1 -				
<ccnr act="" reques<="" td=""><td>st</td><td></td><td></td><td></td></ccnr>	st			
CCNR Act respons	se>			
stop CCNR-T1				
start CCNR-T2	XXXXTC_BEGIN_1	~		
stop CCNR-T2	<tc_continu< td=""><td>E_INDxxxx</td><td></td><td></td></tc_continu<>	E_INDxxxx		
start CCNR-T3				
:				
<ccnr a<="" recall="" td=""><td></td><td></td><td></td><td></td></ccnr>				
	IAM	> CCNR call		
:				
<disconnect< td=""><td>REL</td><td></td><td></td><td></td></disconnect<>	REL			
	ide estivates COND results	and COND recall		
	ide activates CCNR request			
	e CCNRRequest invocation			
	PB is now free for a CCNR		the FCI of the IAM	
4. Check that C	CNR call with "ISDN User P	an required all the way" in	the FCI of the IAM.	

TSS CCNR-ASE/	TP ISS_TC_V_17_2_5	ISUP'97 reference 5.3.1.1/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None
Test purpose				
	destination B becomes free			
To verify that the IUT ca	n act correctly after receipt of	the indication that dest	ination B is free but ca	lling user A is
still busy:				
NOTE 1: Receive a Re	moteUserFree invoke from t	he DLE in a TC-CONT	INUE indication(TC-IN	IVOKE
indication).			, ,	
NOTE 2: Notify the call	ing user A.			
	Suspend invoke in a TC-CON	TINUE request(TC-IN	VOKE request) to the I	DLE.
	nd CCNRResume invoke in T			
	er becomes free.			,
Pre-test conditions				
	UT such that the calling user	subscribes to the CCN	R supplementary service	ce.
access	SPA	SPB	it supplementary contra	
setup				
DecaF	<acm< td=""><td></td><td></td><td></td></acm<>			
(normal c	all, user at SPB no an	-		
	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transacti			
start CCNR-T1 -	-			
<ccnr act="" reques<="" td=""><td>t</td><td></td><td></td><td></td></ccnr>	t			
CCNR Act respons				
stop CCNR-T1				
start CCNR-T2	xxxxTC_BEGIN_REQ	xxxx->		
stop CCNR-T2	<tc_continue_i< td=""><td></td><td>uest return resul</td><td>t</td></tc_continue_i<>		uest return resul	t
start CCNR-T3				
	<tc_continue_i< td=""><td>NDxxxx RemoteUs</td><td>serFree</td><td></td></tc_continue_i<>	NDxxxx RemoteUs	serFree	
stop CCNR-T3				
arrange user to be				
found busy	XXXXTC CONTINUE	REQ> CCNRSus	pend	
or CCNR busy		~ ~	•	
Receive notifica	tion that			
the user at SPB is	now free,			
Send no response	for that			
User A is now fr				
	XXXTC_CONTINUE_R	EQ> CCNRRes	ume	
1. The access s	ide activates CCNR.			
	e CCNRRequest invocation is	received.		
	PB is now free for a CCNR ca			
	P dialogue in order to get an ir			

TSS CCNR-ASE/	TP ISS_TC_V_17_2_6	ISUP'97 reference 1.3/Q.733.5 [28]	Selection expression Local AND PICS A.19/1	Q.788 [38] reference None
Test purpose		I		
Support of the retain opt	ion			
	rforms the retain option by s	etting the retainSupport	ed parameter to TRUE	or FALSE in
	the CCNRRequest return			
Pre-test conditions for O	•			
	UT such that the calling use	r subscribes to the CCNR	supplementary servic	۵
Case a)	or such that the calling use		supplementary servic	0.
access	SPA	SPB		
	->IAM			
secup	<acm< td=""><td></td><td></td><td></td></acm<>			
(normal d	all, user at SPB no a	-		
(IIOTINAL C	all, user at SPB no a REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transac			
start CCNR-T1 -	ICAP transac			
	- +			
<ccnr act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccnr>				
CCNR Act respons	e>			
stop CCNR-T1				
start CCNR-T2		2xxxx-> retainSupp		
stop CCNR-T2	<tc_continue_i< td=""><td>INDxxxx retainSupp</td><td>ortea=TRUE</td><td></td></tc_continue_i<>	INDxxxx retainSupp	ortea=TRUE	
start CCNR-T3				
	de activates CCNR.			
	e CCNRRequest invocation		$upported = IRUE^{*}$.	
	P dialogue in order to get an	initial state.		
Case b)				
access	SPA	SPB		
set the destin	ation			
B free				
	<iam< td=""><td></td><td></td><td></td></iam<>			
	ACM			
(normal c	all, user at SPB no a			
	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
TCAP transacti	on			
		xxx retainSupporte		
		ND-> retainSupporte	d=TRUE	
user free	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
1. UNI at SPA fr	ee			
2. Check that the	e CCNRRequest invocation	is received with "RetainS	upported -TPLIE"	
2. 010000 0100	c oon and could and the could and the	is received with rectained		

TSS	TP	ISUP'97 reference	Selection	0 700 [20]
CCNR-ASE/				Q.788 [38] reference
CCNR-ASE/	ISS_TC_V_17_2_7	5.1.1.1.1/Q.733.5 [28]	expression OLE AND PICS	None
				None
—			A.19/2	
Test purpose		~		
	tstanding CCNR requests of			
-	es not send any CCNRReq	uest to the DLE if the max	kimum number of outst	anding
requests is reached.				
Pre-test conditions				
· · · · · ·	UT such that the calling use		supplementary service	е.
access	SPA	SPB		
setup	->IAM			
, ,	<acm< td=""><td>-</td><td></td><td></td></acm<>	-		
(normal c	all, user at SPB no			
	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transacti	on		
start CCNR-T1 -	-			
<ccnr act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccnr>				
stop CCNR-T1	e>			
start CCNR-T2	XXXXTC_BEGIN_RE	0~~~~~		
stop CCNR-T2	<tc continue<="" td=""><td>-</td><td>est return result</td><td></td></tc>	-	est return result	
start CCNR-T3	<==ic_continue_	INDXXXX CCNRRequ	est recurn resurt	
	ate CCNR request unt	il the maximum		
	NR request supporte			
	o CCNR request is se		ied number of ent	ries
		na aroor one speerr		1100
1. The access s	ide activates CCNR.			
	TC_BEGIN_REQ is sent a	fter the maximum number	of CCNR request is re	ached at
SPA.			0. 00111110440011010	
	fails if the maximum number	er of outstanding requests	is reached and CCNR	Request is
received.				
	Description of the set of the	initial state.		
=======================================	singles in crace to got a			

TSS CCNR-ASE/	TP ISS_TC_V_17_2_8	ISUP'97 reference 5.1.1.2.2; 5.3.5.1; 5.5.4/Q.733.5 [28]	Selection expression DLE AND PICS A.19/6	Q.788 [38] reference None
Test purpose				
	eue entries CCNR requests			
To verify that the IUT se	nds a CCNRRequest return	n error to the OLE if the n	naximum number of qu	ieue entries i
reached.				
NOTE: Send CCNRF	Request return error in TC-EI		equest).	
access	SPA	SPB		
set the destinat	ion			
B free				
	<iam< td=""><td></td><td></td><td></td></iam<>			
	ACM	±		
(normal c	all, user at SPB no a			
	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC			
	TCAP transact			
	<xxtc_begin_< td=""><td></td><td>_</td><td></td></xxtc_begin_<>		_	
	XXTC_CONTINUE_1	-	st return result	
	-	activate CCNR requ		
		the maximum number		
	-	supported by the		
		ched (fill up the q	ueue)	
	<iam< td=""><td></td><td></td><td></td></iam<>			
	ACM			
User no answer	REL			
	<rlc <xxtc_begin< td=""><td></td><td></td><td></td></xxtc_begin<></rlc 			
	xxxxTC END INI			
	XXXXIC_END_INI	1	est return error ng term denial)	
User free	<rel< td=""><td></td><td>ng term denial)</td><td></td></rel<>		ng term denial)	
User liee	<rel< td=""><td></td><td></td><td></td></rel<>			
	KDC	/		
1. UNI at SPA b	ecomes free			
2. Call to the de				
	CNR possible" is received in	n the address complete m	0000000	
	CNRRequest return error is i			
5. Free destinat			·.	

TSS CCNR-ASE/	TP ISS_TC_V_17_2_9	ISUP'97 reference 5.5.4/Q.733.5 [28]	Selection expression	Q.788 [38] reference
	100_10_1_11_2_0	0.0.4/0./00.0 [20]	Local	None
Test purpose				1
Ability to end a dialogue				
To verify that the IUT ca	n end a TCAP dialogue after	a successful CCNR call.		
NOTE: Send a TC-EN	ND request without compone	ent primitive upon sending	g of the ACM, CPG o	or CON.
Pre-test conditions for O	LE			
Arrange the data in the I	UT such that the calling user	r subscribes to the CCNR	supplementary serv	ice.
access	SPA	SPB		
set the destinati	on			
B free				
	<iam< td=""><td></td><td></td><td></td></iam<>			
	ACM			
User no answer	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transacti	on		
	<xxtc_begin_r< td=""><td>-</td><td></td><td></td></xxtc_begin_r<>	-		
	XXTC_CONTINUE_IN	ID> CCNRRequest :	return result	
:				
	XXTC_CONTINUE_IN	ID> RemoteUserFre	ee	
:				
<set td="" up<=""><td></td><td></td><td></td><td></td></set>				
	ACM			
	xxxxTC_END_IND	>		
:				
<aisconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></aisconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
1. UNI at SPA fr	20			
••••••••		out component is received	t in order to and the (
operation.	TC_END_IND primitive with			JUNK

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
CCNR-ASE/	ISS_TC_V_17_2_10	7.1/Q.733.5 [28]	expression	reference
			OLE AND PICS	None
			A.19/7	
Test purpose				
Initiate the CCNR supple	ementary service even if no	even if no CCNR possible	e indicator is received in	n the
ACM/CPG				
To verify that the IUT se	nds a CCNRRequest invok	e if the calling user activation	ites the CCNR.	
Pre-test conditions				
Arrange the data in the	IUT such that the calling use	r subscribes to the CCNR	supplementary servic	e.
access	SPA	SPB		
setup	>IAM			
	<acm< td=""><td></td><td></td><td></td></acm<>			
(normal call, user	at SPB no answer)			
	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP transaction	• • •		
start CCNR-T1 -				
<ccnr act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccnr>				
CCNR Act respons	se>			
stop CCNR-T1		_		
start CCNR-T2	xxxxTC_BEGIN_RE(~		
stop CCNR-T2	<tc_continue_i< td=""><td>LNDXXXX</td><td></td><td></td></tc_continue_i<>	LNDXXXX		
start CCNR-T3				
:				
CONR recall	>IAM	> CONR Call		
:	<rel< td=""><td></td><td></td><td></td></rel<>			
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>			
1. The access s	ide activates CCNR.			
	e CCNRRequest invocation	is received		
	PB is now free for a CCNR (
	et up with "ISDN User Part re		FCI of the IAM	
+. CONR call si		equired an trie way in the		

TSS CCNR-ASE/	TP ISS_TC_V_17_2_11	ISUP'97 reference 9.1/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None
CCNR possible from the calling user. Pre-test conditions	on timer CCNR-T1 can be st DLE and stopped normally	after activation of the CC	NR supplementary ser	vice by the
Arrange the data in the	IUT such that the calling use		supplementary servic	e.
	>IAM			
	<acm< td=""><td></td><td></td><td></td></acm<>			
	at SPB no answer)			
<disconnect-< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect-<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
		SPB starts CCN	R-T1 and receives	5
		nothing until	the timer expire:	5
<facility< td=""><td></td><td></td><td></td><td></td></facility<>				
Act CCNR				
start CCNR-T1				
send nothing until	it expires			
·				
	ide activates CCNR after CC			
Check that no	CCNR request is stored in	the queue.		

		ISUP'97 reference	Selection	Q.788 [38]		
CCNR-ASE/	ISS_TC_V_17_2_12	5.5.4.1 c); 9.1/Q.733.5 [28]	expression OLE	reference None		
Test purpose	Test purpose					
	quest operation timer CCNR					
To verify that the timer CCNR-T2 can be started after sending of a CCNRRequest to the DLE and stopped						
normally after receipt of	CCNRRequest return resul	It from the DLE.				
NOTE: If the timer ex	pires a TC-END with TC-L-C	ANCEL indication primiti	ive is received from the	DLE and the		
service request is rejected.						
Pre-test conditions						
Arrange the data in the I	UT such that the calling user	subscribes to the CCNR	supplementary service	e.		
access	SPA		SPB			
setup	->IAM	->				
	<acm< td=""><td></td><th></th><td></td></acm<>					
(normal call, user	at SPB no answer)					
<disconnect< td=""><td> <rel< td=""><td></td><th></th><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><th></th><td></td></rel<>					
	RLC	->				
	TCAP transaction .					
start CCNR-T2	xxxTC_BEGIN_REQ	> SPB starts C	CNR-T2 and sends			
	<tc_endxxxxxxx< td=""><td>xx TC_END_IND i</td><th>f the timer expir</th><td>es</td></tc_endxxxxxxx<>	xx TC_END_IND i	f the timer expir	es		
1. The access side activates CCNR.						
2. End the TCAF	P dialogue in order to get an	initial state.				

TSS CCNR-ASE/	TP ISS_TC_V_17_2_13	ISUP'97 reference 5.1.2.1.2/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None
Test purpose				
Support of the CCNR serv	vice duration timer CCNR-7	гз		
	successfully deactivate a 0		R service duration time	er CCNR-T3
expires.				
	Cancel invoke with cancel	Cause to the DLE by usin	a the TCAP primitive 1	C-END
	VOKE request) with cance			
Pre-test conditions				
Arrange the data in the IU	T such that the calling use	r subscribes to the CCNR	supplementary servic	e.
access	SPA	SPB		
setup	>IAM	>		
_	<acm< td=""><td></td><td></td><td></td></acm<>			
(normal call, user	at SPB no answer)			
<disconnect< td=""><td>- <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	- <rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
	TCAP transacti	on		
start CCNR-T2	xxxxTC_BEGIN_REQ-	> CCNRRequest	invoke	
stop CCNR-T2	<tc_cont_indxx< td=""><td>cxx CCNRRequest</td><td>return result</td><td></td></tc_cont_indxx<>	cxx CCNRRequest	return result	
start CCNR-T3				
starts CCNR-T3 and	sends TC_CONTINUE_IN	ND with RemoteUserF:	ree if it expires	3
	<tc_cont_indxx< td=""><td>xxxx RemoteUser</td><td>Free</td><td></td></tc_cont_indxx<>	xxxx RemoteUser	Free	
	xxxxxTC_END_REQ	> TC_END_IND w	ith CancelCause	
"timeout CCNR-T3"				
1. The access sid	e activates CCNR.			
2 After CCNR-T3	timer expiry the IUT shall	send the CancelCause "C	CNR-T3 timeout" in a	TC_END.

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]
CCNR-ASE/	ISS_TC_V_17_2_14	5.1.2.1.2 ii);	expression	reference
		9.1/Q.733.5 [28]	OLE	None
Test purpose				
Support of the CCNR re-	call timer CCNR-T4			
To verify that the timer C	CNR-T4 can be stopped aft	er receiving an indication	from the user for a CC	NR recall.
NOTE: CCNR-T4 cor	ntains the maximum time the	network will wait for the	calling user A to respor	nd to a CCNR
recall. The OL	E sends a CCNRCancel in	voke in TC-END request	to the DLE in case of	CCNR-T4
expiry.				
Pre-test conditions				
Arrange the data in the I	UT such that the calling use	r subscribes to the CCNR	supplementary servic	e.
		PB		
setup	->IAM			
	<acm< td=""><td></td><td></td><td></td></acm<>			
-	at SPB no answer)			
<disconnect-< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect-<>	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	-		
	TCAP transacti			
start CCNR-T2	xxxxTC_BEGIN_REQ-	-		
start CCNR-T3	<tc_cont_indxx< td=""><td>cxx CCNRReques</td><td>t return result</td><td></td></tc_cont_indxx<>	cxx CCNRReques	t return result	
•		Demokettere	D	
	<tc_cont_indxx< td=""><td>xxxx RemoteUser</td><td>Free</td><td></td></tc_cont_indxx<>	xxxx RemoteUser	Free	
SPB starts CONR-T4	and receives TC END	IND with CancelCau	se if it expires	
		> TC END IND w	-	
"timeout CCNR-T3"		10_21.2_21.0 %		
1. The access s	ide activates CCNR and doe	s not accept the CCNR re	ecall within CCNR-T4.	
	e CancelCause "CCNR-T4 ti			

TSS CCNR-ASE/	TP ISS_TC_V_17_2_15	ISUP'97 reference 5.3.1.2 b) i)/Q.733.5 [28]	Selection expression OLE AND PICS	Q.788 [38] reference None	
			A.19/5		
Test purpose				•	
Reject a second identica					
	es not send any CCNRRequ	uest to the DLE if a secon	d identical activation of	f CCNR is done.	
Pre-test conditions					
Arrange the data in the	UT so that the calling user s	ubscribes to CCNR supp	lementary service.		
access	SPA	SPB			
setup	>IAM				
	<acm< td=""><td></td><td></td><td></td></acm<>				
· · ·	at SPB no answer)				
<disconnect< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><td></td><td></td><td></td></rel<>				
		> (1 st normal cal	.1)		
	TCAP transact	ion			
start CCNR-T1 -	-				
<ccnr act="" reques<="" td=""><td></td><td></td><td></td><td></td></ccnr>					
CCNR Act respons	se>				
stop CCNR-T1					
start CCNR-T2					
stop CCNR-T2	<tc_continue_in< td=""><td>NDx</td><td></td><td></td></tc_continue_in<>	NDx			
start CCNR-T3					
setup	>IAM				
(<acm< td=""><td></td><td></td><td></td></acm<>				
	at SPB no answer) <rel< td=""><td></td><td></td><td></td></rel<>				
<aisconnect< td=""><td></td><td> > (2nd normal cal</td><td>1)</td><td></td></aisconnect<>		 > (2 nd normal cal	1)		
	KIC	> (2 normal Cal	. 土)		
1. The access s	ide activates CCNR.				
3. Check that the CCNRRequest invocation is received.					
	ical call from the IUT to the s				
5. End the TCAI					

TSS CCNR-ASE/	TP ISS_TC_V_17_2_16	ISUP'97 reference 5.3.1.2 b) ii)/Q.733.5	Selection expression	Q.788 [38] reference	
		[28]	OLE AND PICS A.19/4	None	
Test purpose		-			
Treat a second identical	l activation of CCNR as a ne	w request			
To verify that the IUT tre	eats a second identical activa	ation of CCNR as a new re	equest.		
Pre-test conditions					
Arrange the data in the	IUT so that the calling user s	subscribes to CCNR suppl	lementary service.		
access	SPA	SPB			
setup	>IAM	>			
	<acm< td=""><th></th><td></td><td></td></acm<>				
(normal call, user	at SPB no answer)				
<disconnect< td=""><td> <rel< td=""><th></th><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><th></th><td></td><td></td></rel<>				
	RLC	> (1 st normal cal	.1)		
	TCAP transact:	ion			
start CCNR-T1 -					
<ccnr act="" reques<="" td=""><td>st</td><th></th><td></td><td></td></ccnr>	st				
CCNR Act respons	se>				
stop CCNR-T1					
start CCNR-T2	XXXXTC_BEGIN_RE	2>			
stop CCNR-T2	<tc_continue_i< td=""><th>INDx</th><td></td><td></td></tc_continue_i<>	INDx			
start CCNR-T3					
:					
setup	>IAM				
	<acm< td=""><th></th><td></td><td></td></acm<>				
	at SPB no answer)				
<disconnect< td=""><td> <rel< td=""><th></th><td></td><td></td></rel<></td></disconnect<>	<rel< td=""><th></th><td></td><td></td></rel<>				
		> (2 nd normal cal	.1)		
	TCAP transact:	ion			
start CCNR-T1 -					
<ccnr act="" reques<="" td=""><td></td><th></th><td></td><td></td></ccnr>					
CCNR Act respons	se>				
stop CCNR-T1	ma a - -				
start CCNR-T2	XXXXTC_BEGIN_RE				
stop CCNR-T2	<tc_continue_< td=""><th>LNDX</th><td></td><td></td></tc_continue_<>	LNDX			
start CCNR-T3					
	ide activates CCNR.				
	o answer user at SPB.				
	e CCNRRequest invocation				
	ical activation of the CCNR I	equest.			
End the TCAI	P dialogue.				

TSS	TP	ISUP'97 reference	Selection	Q.788 [38]	
CCNR-ASE/	ISS_TC_V_17_2_17	5.1.2.2.2/Q.733.5 [28]	expression	reference	
			DLE	None	
Test purpose					
Support of the CCNR se	ervice supervision timer CCN	IR-T7			
To verify that the IUT de	activates the CCNR-request	if CCNR-T7 expires.			
NOTE 1: CCNR-T7 is s	NOTE 1: CCNR-T7 is started after sending a CCNRRequest return result to the OLE.				
NOTE 2: CCNR-T7 is s	stopped after the destination	B becomes not busy, bef	ore sending RemoteU	serFree to the	
OLE.					
NOTE 3: Send a CCNF	RCancel invoke in a TC-EN	D request(TC-INVOKE re	equest) with cancelCau	ise "CCNR-T7	
Timeout".		• ``	1 /		
access	SPA	SPB			
set the destinati	on				
B free					
	<iam< td=""><th></th><td></td><td></td></iam<>				
	ACM	>			
(user at SPB no an	swer)				
	REL	>			
	<rlc< td=""><th></th><td></td><td></td></rlc<>				
	TCAP transact	ion			
	<xxtc_begin_re< td=""><th>IQx</th><td></td><td></td></xxtc_begin_re<>	IQx			
	XXTC CONTINUE INI	D> CCNRRequest r	eturn result		
		-			
SPB starts CCNR-T7	and receives TC_END_	IND with CancelCau	se		
"CCNR-T7 Timeout"					
	xxxxxTC_END_IND	>			
user free	 <rel< td=""><th></th><td></td><td></td></rel<>				
	RLC	>			

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
CCNR-ASE/	ISS_TC_V_17_2_18	5.3.1.5 a); 9.1/Q.733.5	expression	reference
		[28]	DLE	None
Test purpose		· · ·		
Support of the destination	on B idle guard timer CCNR	-T8		
To verify that no resource	es are available at the dest	ination B side until timer CC	NR-T8 expires.	
access	SPA	SPB	•	
set the destinati	on			
B free				
	<iam< td=""><th></th><td></td><td></td></iam<>			
	ACM	>		
(user at SPB no an	lswer)			
	REL	>		
	<rlc< td=""><th></th><td></td><td></td></rlc<>			
	TCAP transact	ion		
	<xxtc_begin_< td=""><th>REQx CCNRRequest</th><td></td><td></td></xxtc_begin_<>	REQx CCNRRequest		
	xxTC_CONTINUE_IN	D> CCNRRequest r	eturn result	
:				
User is now free	SPB starts time	rs CCNR-T8		
		y second that no res		
	are available b	y using T_LOCAL time	r	
	<iam< td=""><th></th><td></td><td></td></iam<>			
	REL			
	<rlc< td=""><th></th><td></td><td></td></rlc<>			
:				
	<iam< td=""><th></th><td>pires</td><td></td></iam<>		pires	
	ACM			
connect	->ANM	>		
	o resources are available wi			a KEL.
Check that re	sources are now available l	by sending an IAW and rece	erving an ACIVI, etc.	

TSS	ТР	ISUP'97 reference	Selection	Q.788 [38]
CCNR-ASE/	ISS_TC_V_17_2_19	5.3.5.2 d); 9.1/Q.733.5	expression	reference
		[28]	DLE	None
Test purpose	•			
Support of the DLE reca	all timer CCNR-T9			
To verify that the timer (CCNR-T9 can be started after	er sending of a TC-CONTI	NUE with RemoteUse	Free from the
DLE and stopped after (CCNR call is received from t	he OLE.		
NOTE: Send a CCNI	RCancel invoke in a TC-EN	ID request(TC-INVOKE re	equest) with cancelCau	use "CCNR-T9
Timeout".				
access	SPA	SPB		
set the destinat	ion			
B free				
	<iam< td=""><td></td><td></td><td></td></iam<>			
	ACM	>		
(user at SPB no ar	,			
	REL			
	<rlc< td=""><td></td><td></td><td></td></rlc<>			
	TCAP trans			
	<xxtc_begi< td=""><td>= ~</td><td>_</td><td></td></xxtc_begi<>	= ~	_	
	XXTC_CONTINUE	_IND> CCNRRequest	t return result	
:	xxTC_CONTINUE	_IND> RemoteUserH	Free	
	SPB starts CC	NR-T9 and receives		
	TC_END_IND wi	th CancelCause		
	"CCNR-T9 Time	out" if it expires		
	XXXXXTC_END_I	ND>		
user free	<rel< td=""><td></td><td></td><td></td></rel<>			
	RLC	>		
	e CancelCause "CCNR-T9	timeout" is received in a T	C_END.	
Free destinat	ion B.			

TSS CCNR-ASE/	TP ISS_TC_V_17_2_20	ISUP'97 reference 7.7.3.3.1; 7.7.3.3.2; 9.3/Q.733.5 [28]	Selection expression Local AND PICS A.19/19	Q.788 [38] reference None
Test purpose	king supervision timer T _{SUP}			
	Γ_{SUP} is used correctly in case	of interworking with a pri	vate network.	
	ds a CCNRCancel invoke ir			use in case of
T_{SUP} timer ex				
	ids a CCNRCancel invoke ir	TC-FND request to the	DLE without cancelCa	use in case of
T_{SUP} timer ex				
Pre-test conditions for C				
	IUT such that the calling use	r subscribes to the CCNF	supplementary service	۵
		(private network)	Couppiententary service	0.
	->TAM>			
<acm< td=""><td> <acm< td=""><td>_</td><td></td><td></td></acm<></td></acm<>	<acm< td=""><td>_</td><td></td><td></td></acm<>	_		
(user at SPB no ar				
· · · · · · · · · · · · · · · · · · ·		-		
RLC	->RLC>	>		
	TCAP transaction	1		
XXXTC BEGIN REO	-> xxTC BEGIN REO>	>		
~	SPB starts T_SUP	and sends no		
	 CCNRRequest retu	ırn result within T	_SUP	
1	xxxTC_END_REQ>	TC_END_IND witho	ut CancelCause	
1. Check that a	TC END without CancelCau	ise is received.		

TSS CCNR-ASE/	TP ISS_TC_V_17_2_21	ISUP'97 reference 5.1.1.1.1/Q.733.5 [28]	Selection expression OLE	Q.788 [38] reference None	
Test purpose CCNR REQUEST not invoked To verify that if a call is attempted with a ACM without CCNR possible indicator, then no CCNR REQUEST shall be sent from the OLE to the DLE. Pre-test conditions Arrange the data in the IUT such that the calling user subscribes to the CCNR supplementary service.					
access	SPA	SPB	•••••		
setup	IAM				
		(no CCNR possi	ble indicator)		
(no answer					
<disconnect-< td=""><td> <rel< td=""><td></td><td></td><td></td></rel<></td></disconnect-<>	<rel< td=""><td></td><td></td><td></td></rel<>				
>					
1. The access side shouldn't activate CCNR.					
2. Do not answe	er the call and do not include	CONR possible indicator	•		

7 Test Coverage

The test purposes defined in this test specification cover most main capabilities of the ISUP'97 reference specification for supplementary services. A list containing the number of test purposes for each supplementary service is provided in table 3.

Whenever it was possible, the test purposes have been described such that they bundle related requirements of the standard. Due to this fact a test purpose may lead to implementing several test cases for the ATS.

The majority of test purposes (over 80 %) concentrate on valid behaviour. The number of invalid behaviour test purposes is limited. An expansion of the invalid behaviour test purposes is left for further study.

ltem	Supplementary service	Group	Number of test purposes
1	Calling Line Identification Presentation	CLIP	19
2	Calling Line Identification Restriction	CLIR	11
3	Connected Line Identification Presentation	COLP	18
4	Connected Line Identification Restriction	COLR	12
5	Terminal portability	TP	10
6	User-to-user signalling service 1 implicit	UUS1_I	6
	User-to-user signalling service 1 explicit	UUS1_E	18
	User-to-user signalling service 2	UUS2	16
	User-to-user signalling service 3	UUS3	17
7	Closed User Group	CUG	23
8	Sub-addressing	SUB	5
9	Malicious Call Identification	MCID	16
10	Conference call, add-on	CONF	16
11	Explicit Call Transfer	ECT	30
12	Call diversion services	CDIV	49
13	Call Hold	HOLD	12
14	Call Waiting	CW	8
15	Completion of Calls to Busy Subscriber (ISUP)	CCBS_ISUP	15
	Completion of Calls to Busy Subscriber (ASE)	CCBS_ASE	21
16	Three Party service	THREE_PTY	9
17	Completion of Calls on No Reply	<u>CCNR</u>	34
	Grand total		365

Table 3: Number of tests for the ISUP'97supplementary services

Bibliography

The following material, though not specifically referenced in the body of the present document (or not publicly available), gives supporting information.

- ITU-T Recommendation Q.767 (1991): "Application of ISUP for international ISDN interconnections".
- ITU-T Recommendation Q.850 (1998): "Usage of cause and location in the Digital subscriber Signalling System No. 1 and the Signalling System No. 7 ISDN User Part".

- ISO/IEC 9646-2 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 2: Abstract Test Suite Specification".
- ISO/IEC 9646-5 (1994): "Information technology; Open Systems Interconnection; Conformance testing methodology and framework; Part 5: Requirements on test laboratories and clients for the conformance assessment process".

History

	Document history				
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